

*The*  
**PHARMIST AND DRUGGIST**  
For RETAILER - WHOLESALE - MANUFACTURER

Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

3406  
EXLIII

MAY 19, 1945

Annual Subscription (with  
Diary) 25/- Single copies 9d.



The End or the Beginning? The END of humanity's greatest Tyranny leaves us almost breathless. Words cannot express our relief—BUT—this time, we cannot sit back to drift aimlessly on the tide of History. It must be a new BEGINNING in which no one of us may shirk his responsibility as a citizen.

**BURGOYNE BURBIDGES**

Established 1741. & COMPANY LIMITED, LONDON. E.6



**A**N ACUTE SHORTAGE of cases and packing material together with a staff reduced to its absolute minimum has led to delay in the execution and dispatch of Parke, Davis & Co. orders.

We are doing our best in the face of these difficulties, and we ask for condonation whenever our endeavours fail to realize expectations.

Orders are being dealt with on the fairest basis we can devise ; and we urge our pharmacist friends to hesitate before sending us queries or complaints.

The prompt return of packing cases, etc., will be of the utmost assistance.



**PARKE, DAVIS & CO.**  
**50 BEAK STREET, LONDON, W.1**

*Inc. U.S.A. Liability Ltd.*

# A word of appreciation . . . .

For a change . . . we are not mentioning our worries and troubles, but counting our blessings instead.

When the war came we were fortunate in having throughout the trade staunch friends who had been dealing with us for 25 years. Without their loyal support we could not have weathered the trials which have beset all manufacturers during these difficult war years. That support may be measured by the fact that whilst last year was a record in the history of the Milton Company, this year again all records have been broken.

Against all difficulties, we have kept the quality of Milton products high, and have put into them the finest material available to us. In spite of man-power shortage our laboratory staff has been maintained, and has been constantly at work to devise improvements in quality and presentation of our products, against the time when a relaxation of war restrictions will enable us to put this scientific work to practical effect.

We hope to repay the splendid support of the trade, for which we are sincerely grateful, by offering an unrivalled standard of quality and presentation, backed by a service of which we can be proud.

**PATA**

**MILTON ANTISEPTIC LTD.**

**CHAPEL LANE, SANDS, HIGH WYCOMBE, BUCKS**

## Are you qualifying for this Bonus?

When ordering it is only necessary to state the number of the Parcel required. All Bonus Parcels subject to 3½ per cent. cash discount for payment within 7 days or nett 30 days.

*Steiner's Eau Dentifrice sells at 3/-, 5/6, 10/6.*

### TYPICAL BONUS PARCEL.

PARCEL No. 3.	Cost Price	Selling Price (Inc. Pur. Tax)
3 doz. (No. 0 size)	3 0 0	5 8 0
1 doz. (No. 1 size)	1 16 0	3 6 0
½ doz. (No. 2 size)	1 14 6	3 3 0
1 doz. (No. 0 size)	<i>Bonus no charge</i>	
	6 10 6	1 16 0

Purchase Tax

6 10 6  
2 8 3  

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£8 18 9

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£13 13 0



**Steiner's** EAU DENTIFRICE

Write for details of other parcels to Sales Office: DOBSON & STEINER LTD., 17, Old Bond Street, Regent 1191.



## ASHETREE PRODUCTS

### PROTEIN HYDROLYSATES

"F" = FAMINE-Food

At present all supplies  
are earmarked for the  
treatment of malnutri-  
tion on the Continent.

### "ASHTREE" TABLETS

Sulphur  
Iodised  
Catarrh  
Bronchial  
Yeast  
Soda Mint  
etc., etc.

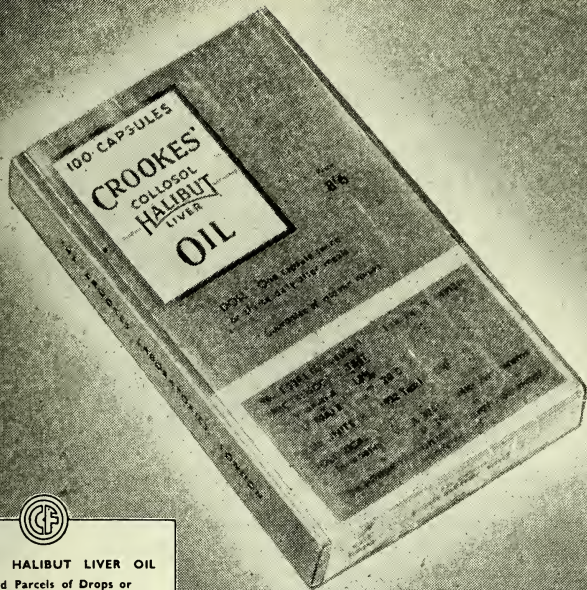
### PHARMACEUTICAL SPECIALITIES

'ACNOLENE'  
Acne Emulsion  
'ATHEET'  
Athletes Foot Solution  
Antiseptic Gargle  
Calamine Lotion  
Pine and Wintergree  
etc., etc.

**ASHE LABORATORIES LIMITED**

120/122 VICTORIA STREET • LONDON S.W.  
PHONES: VICTORIA 6781/6 GRAMS: ASHETREE SOWEST LONDON





CROOKES' HALIBUT LIVER OIL  
Standard Parcels of Drops or  
Capsules only

PARCEL	Contents	Bonus	Sell	£ s d
PARCEL G	= 1 DOZEN 12 x 15 c.c. 5- Drops Less 25%	1	5/-	3 0 0 15 0 2 5 0 4 6 *£2 0 6
	10%			
	*Amount of cash with order			
PARCEL H	= 3 DOZEN 36 x 5 c.c. 2- Drops Less 25%	3	2/-	3 12 0 18 0 2 14 0 5 5 *£2 8 7
	10%			
	*Amount of cash with order			
PARCEL J	= 1 DOZEN 12 x 30 c.c. 9- Drops Less 25%	1	9/-	5 8 0 1 7 0 4 1 0 8 1 *£3 12 11
	10%			
	*Amount of cash with order			
PARCEL K	= 6 DOZEN 72 x 5 c.c. 2- Drops Less 25%	12	2/-	7 4 0 1 16 0 5 8 0 10 10 *£4 17 2
	10%			
	*Amount of cash with order			
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	10%			
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PARCEL M	= 3 DOZEN 36 x 100 Capsules Less 25%	3	8/6	15 6 0 3 16 6 11 9 6 1 3 0 *£10 6 6
	10%			
	*Amount of cash with order			

# The NEW Packing

Designed originally to overcome wartime manufacturing and transport difficulties, this new pack has emerged as one that looks really well on the counter (an important sales-building factor) and is handy for the pocket and handbag.

This new pack is now included in our 'L' and 'M' bonus parcels only, but it will become increasingly general as existing stocks of the old packing are consumed.

# Crookes' Halibut Oil

THE CROOKES LABORATORIES (British Colloids Ltd.), PARK ROYAL, N.W. 10  
Telephone: ELGAR 6313 (5 Lines)      Telegrams: COLLOSOLS, HARLES. LONDON

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CHEMIST...



IN our press advertisements we advise women to ask their chemist for a copy of "Hygiene for Women," by Nurse Drew.

50,000 direct applications prove women are vitally interested in feminine hygiene.

If you have not a good supply of these popular booklets for counter display then you are not getting your share of the ever-growing demand for the various Rendells Products.

Why not write us today for a supply of our latest Chemist Display Aid?

*Rendell*  
**PRODUCTS**

**P.A.T.A.**

**FOR FEMININE HYGIENE**

W.J. RENDELL LTD · HARDWICK HOUSE · 161-5 ROSEBERY AVENUE · LONDON, E.C.



6

VITAMINS

*in one capsule!*

**A  
B,  
B<sub>2</sub>  
C  
D**

It frequently falls to the trained Pharmacist to guide his customers, and in all cases where systemic vitamin deficiency is indicated he can recommend Vykmin with complete confidence. Each Vykmin capsule contains guaranteed, specific amounts of all 6 essential Vitamins in the correct quantities. Vykmin represents the latest step in Vitamin therapy, and is prepared from an advanced formula.

**Vykmin**      **MULTIPLE  
VITAMIN  
CAPSULES**

Obtainable from your regular Wholesaler.

**HOME HEALTH SERVICES**  
132 Baker Street, London, W.1

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*creates its own demand!*

Serocalcin is successful in over 80 per cent. of cases of the common cold. This has been proved beyond doubt from the experience of the past ten years, and as a result a continuous demand arises for SEROCALCIN from prescriptions, from previous customers and from recommendations. Ample stocks of Serocalcin are available now, and chemists are invited to place their orders early to avoid the possibility of future delays in delivery.

**SEROCALCIN PREVENTS COLDS**

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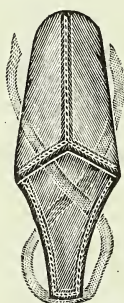
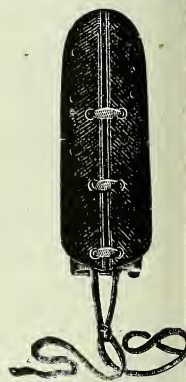
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OILED SILK

Fig. 211



Fig. 665

Fig. 200  
LEATHER

IMMEDIATE DELIVERY FROM STOCK

Made and Stocked by— **M. J. FECHER, LTD.****121 High Street, SLOUGH, BUCKS.**

Phone: SLOUGH 21864

Established 1891



# In constant demand!



What is your stock position? Is it time you ordered again? Supplies are not unlimited. By ordering well in advance you will lessen the risk of being out of stock through unavoidable delivery delays, and, at the same time, assist us to arrange an equitable distribution of available supplies. VENO, THERMOGENE, PHENSIC are firmly established, quick-selling, profitable lines. Order well ahead!

**VENO DRUG CO. LTD.**  
**CHESTER ROAD · MANCHESTER, 16**

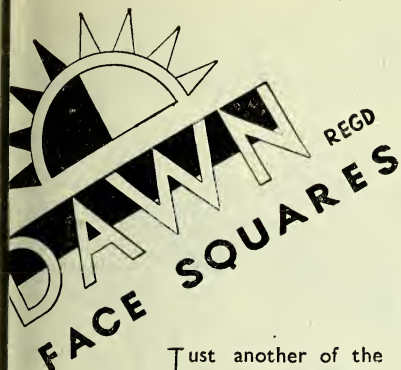
*The Hall-Mark of*  
**QUALITY**



*A monogram which is supported by  
an organisation of wide experience  
and with highly specialized equipment  
under the control of qualified chemists*

**ARTHUR H. COX & CO. LTD. BRIGHTON**

ONE OF BRITAIN'S LEADING MANUFACTURING CHEMISTS



Just another of the good things that will come again with Victory, but which must be sacrificed meantime.

Made by  
**JACQUESIL FABRICS LTD.**  
RED BANK MILLS  
RADCLIFFE, Lancs

## A firm can't make a perfume

A company can't paint a picture, create a perfume. Goya perfumes are made by Goya, an individual, not by a board of directors, a committee of chemists.

Although Goya perfumes are sold all over the world they are made in England. Goya is an Englishman, it is because of his skill that your customers prefer Goya.

PERFUME LIPSTICK  
FACE-POWDER

# GOYA

161 New Bond Street, London, W.1

**TO CHEMISTS  
WHO STOCK**



**BABY PRODUCTS,  
AND  
TEK TOOTH BRUSHES**

★ Our representative will be calling on you soon. Please wait until you have seen him, and do not post your orders for our baby products, including powder and soap, and Tek tooth brushes. The full allocation due to you during the current rationing period will be sent to you after our representative has called.

★ Pharmacists upon whom our representative cannot call with any regularity are asked to apply by letter for their quota, which in any case will be reserved for them for a reasonable period after it becomes available.

*Johnson & Johnson*  
(Gt BRITAIN) LIMITED

REGISTERED OFFICE  
& SALES DEPARTMENT  
SLOUGH . BUCKS



**THIRTY YEARS REPUTATION**

**Kenrosa**  
**HAIR PREPARATIONS**

**Kenrosa LTD.**  
**LONDON. E.5.**

**Manufacturers of**  
**PASHANA, FOUGER, LOTIONS,**  
**MONFREY'S DRY SHAMPOO ETC.**

The illustration shows three products: a box of 'Kenrosa COCOA NUT OIL SHAMPOO POWDER' with a woman's head on the label, a jar of 'Kenrosa HAIR CREAM' with a decorative label, and a bottle of 'Doctor HARR'S 6-8-6 B SCURF and DANDRUFF Lotion' with a label that says 'GUARANTEED TO REMOVE SCURF & DANDRUFF AND TO NOURISH THE HAIR' and 'BRITISH MADE'.

**WAX EMULSIFIERS**

'AMBRESIL V.C.' Creates a remarkable pearly white Vanishing Cream, imparting a perfect matt effect.

'AMBRESIL No. 4.' The Premier Oil-in-Water Emulsifier for brilliant white cream preparations.

'AMBRESIL G.M.' An interesting multi-purpose Wax Emulsifying Agent.

'AMBRESIL No 559.' Produces a cold, cleansing and similar Cream, with the addition of water only.

**WHITE OIL** in 1 and 5 gallon Drums.

**AMBRESIL LTD.**

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*for the Cosmetic Trade*

- PERFUME COMPOUNDS ● STEARIC
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- ALCOHOLS ● EMULSIFIERS AND W

From 1 lb. upwards.

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Trenmar Gardens, N.W.10. Ladbroke

**FRAGRANT TONIC HAIR CREAM**

MAKES THE HAIR BEHAVE

**MY LADY'S VANISHING CREAM**  
For loveliness and charm—Delicately perfumed.

Setting Lotion, Solid Brillantine, Brillantine, Cold Cream, Cleansing Cream, Antiseptic Balm.

**LABELS FOR THESE LINES—6/- per gross.**

**PERFUME—COLOURING—BOTTLES—JARS.**

**EMULSIFIERS**—Needing hot water only to give excellent preparations as above. Send stamp for details to—

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**A PROFITABLE REPEATING LINE****BIOCRIN**  
**POMADE SHAMPOO TREATMENT**

MEDIUM JARS 15/- doz. + 33 1/3% P.T.  
LARGE JARS 27/- " + " "

**Retailing at 3/- and 5/-**

SHOW MATERIAL SUPPLIED  
MINIMUM CONSIGNMENT 3 doz

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*Messrs. P. A. C. Chemicals Ltd.*  
*of Epsom announce the appointment*  
*of S. Maw, Son & Sons Ltd.*

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# *Boon*

## *Products*

THE BOON SERIES INCLUDES—

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BOON EMULSION	18/-	$\frac{1}{6}$ th	2/9
BOON MOUTH SALVE	18/-	$\frac{1}{6}$ th	2/9
BOON PINE BALM	18/-	$\frac{1}{6}$ th	2/9
BOON PINE ESSENCE	20/-	$\frac{1}{6}$ th	2/9
BOON SHAVING MILK	12/6	$\frac{1}{3}$ rd	1/10
BOON SKIN SALVE	18/-	$\frac{1}{6}$ th	2/9
BOON LAVENDER SOAP			
SUBSTITUTE	16/-	$\frac{1}{3}$ rd	2/6
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**MAW OF BARNET**

**ALDERSGATE HOUSE, NEW BARNET, HERTS**

# BEAR BRAND HONEY

## BULK AND PACKED

FOR MANUFACTURING  
AND TABLE USE

### L. GARVIN & Co. Ltd.

BRANCH

### THE BEAR HONEY CO. LTD.

### ISLEWORTH, MIDDLESEX

Hounslow 3463/4



THE DEMAND IS HERE, THERE  
AND EVERYWHERE

Shortly you, too, will be able to buy.  
For the present we remind you of the miscellaneous supplies we have been making available to the Trade.

Emulsifying Wax VX, 7/6 lb., for Hair Cream.  
Emulsifying Wax 0584, 12/6 lb., 10/6 for Cream Vanishing Cream.

Perfume (Water Spirit and Oil Soluble quality).  
Various Stocks: Pea-sized Soda Crystals, Soda Sesqui-carbonate, LL/X. E.P. Oil, Tragacanth, Stearic Acid, Waxes, 880 Liquid Ammonia, Petroleum Jelly, Glycerine, White Odourless Technical Cosmetics, Raw Materials, etc.

Liquid Shampoo, Camomile, Coconut and Pine Tar, and Soft Soap. For resale against Permit. 10/6 gallon, plus P.T.

Colours. In Liquid and Powder Form for all manufacturing purposes in small or large quantities.

Embossed Labels. Comprehensive selection in small or large quantities supplied.

Face Powder Boxes, Talcum Powder Boxes, Fancy Cardboard Boxes, Smart Slip Containers, Push-up and Plain, Lids, Lid Tins.

Shampoo Env. and Inners, also Transport type.

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Lee-Narvill Laboratories, Anlaby Rd.,

## Thirty-two Million Gallons of Liquinure Solution

are used every year. The demand for this important plant food is still increasing. Be sure to have a good stock for spring and summer when our national advertising will be at the height. Packed in 2/6d. bottles. Ask your Wholesaler.

## LIQUINURE SALES

27 Burnt Oak Broadway, Edgware  
Middlesex



## EDMUND STEKE CARDBOARD BOX MANUFACTURER

Head Office

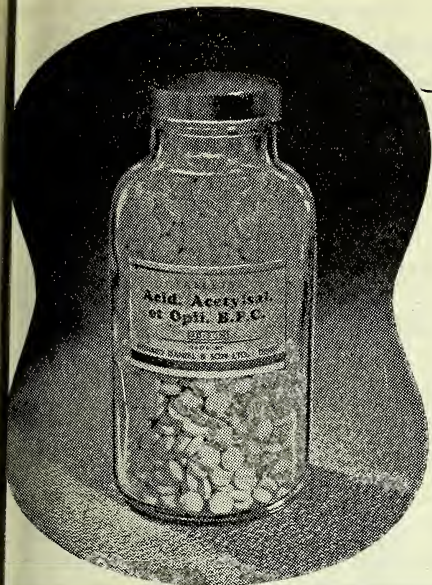
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**CHEMISTS' PRINTING**  
CONSULT  
**JAMES TOWNSEND & SONS, LTD.**  
**EXETER**



## PRODUCTS of PRESTIGE

From our long experience as specialists in pills, tablets and galenicals, we can offer products of highest standards which safeguard the prestige of the industry. We shall be proud to serve new clients when normal times return.



MANUFACTURING CHEMISTS

ESTABLISHED 1860 • DERBY 4266-8



## A Fine Repeating Line . . . .

After the first sale people keep on asking for "Domestos," the all-round household help for washing, cleaning and disinfecting . . . .

# DOMESTOS

The Three-purpose Cleanser.

DOMESTOS LTD.,

College Works,

Newcastle upon Tyne, 6.

Telephone . . . . Newcastle 55119.

Write  
or  
trade  
terms

# DABitoff



The ONLY  
STAIN REMOVER  
with the  
CLEANING PAD!

Non-inflammable. Spots and stains disappear as if by magic. No cleaning cloth needed—no waste—the cleaning pad is fixed in neck of bottle—always ready for use



So simple and effective

## IT SELLS ON SIGHT!

RETAIL PRICE 1/9 per bottle

NATIONALLY ADVERTISED  
SHOW MATERIAL AVAILABLE

GENEROUS TERMS TO TRADE

CHEMO-PLASTICS LTD.

17 MANCHESTER SQUARE, W.1







Amateur Photography is a most fascinating hobby which at the present time has to be materially curtailed, as matters of much more importance are in hand.

Looking ahead, however, we anticipate providing a series of Cameras at prices that will suit every pocket.

Catering for the beginner and the younger generation, there will again be that popular camera

## THE SOHO S.K.12 FOLDER

whilst for the more advanced and serious worker there will be a choice of other models including

## THE SOHO REFLEX

which is still

## THE BEST CAMERA IN THE WORLD

The possibilities of so pleasurable a pastime will come as a relief.

Records are kept of enquiries made under present conditions, and at a later date contact will be made, and information given with pleasure.

If you would like your name added to the list, write to our temporary war-time address—

## A. KERSHAW & SONS, LIMITED

3 EMBASSY BUILDINGS, GERMAIN STREET, CHESHAM, BUCKS

Phone: Chesham 266

*Always Sells!*

THE LIVE LINE  
WITHOUT A  
DEAD SEASON-

**Cuticura**  
OINTMENT

223

- Cuticura Ointment—and equally popular Cuticura Soap, Cuticura Talcum Powder and Cuticura Shaving Stick—are in demand from January to December. How are your stocks.

## DELLIPSOIDS

Attention is directed to alterations to the contents of certain Packs and the introduction of some larger ones

Name and List No.	No. in Pack	Retail Price
D. 1. Iron and Yeast .. ..	60, 120	1/11, 2/3
D. 2. Tonic .. ..	40, 100	2/3, 4/6
D. 3. Iron .. ..	60, 120	1/9, 2/6
D. 4. A.P.C. .. ..	30, 100	2/6, 7/6
D. 7. Cold .. ..	30	2/3
D. 8. Hypotensive .. ..	36, 100	2/3, 5/6
D. 9. Aperient .. ..	100	2/6
D. 11. Hormone Compound .. ..	30, 100	2/6, 7/6
D. 12. Thyroid gr. $\frac{1}{2}$ .. ..	50	1/1
" " gr. $\frac{1}{4}$ .. ..	50	1/1
" " gr. $\frac{1}{8}$ .. ..	50	1/1
" " gr. 2 .. ..	50	2/6
D. 13. Stillbœstrol .. ..	30	1/6
D. 14. Sedative Tonic .. ..	30	1/1
D. 15. Bronchial .. ..	50	4/-
D. 16. Nerve .. ..	50	2/6
D. 17. Asthma .. ..	25	3/6
D. 18. Cardiac .. ..	36	1/1
D. 19. Climacteric .. ..	30	4/-
D. 20. Stomachic .. ..	50	1/1
D. 21A. Triple-Vitamin .. ..	50, 100	3/-, 5/6
D. 22. Back and Kidney .. ..	50, 100	2/3, 3/6

A full list of Packs showing Trade Prices and Quants Discounts will be sent on application.

**DAMANCY & CO. LTD**

HARROW MIDDLESEX

Telephone: BYRON 1440. Telegrams: DAMANCY, HARR



# JORDANS

*Pills*

IN CONSTANT  
DEMAND



RETAILS  
AT 1/5  
TRIAL  
SIZE 4<sup>p</sup>  
PLIED BY YOUR  
JAL WHOLESALE

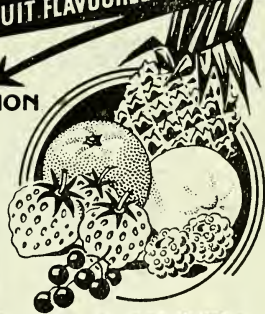
# Frutabax

ASSORTED FRUIT FLAVOURED LAXATIVES

FOR  
CONSTIPATION

SUITABLE FOR  
CHILDREN  
AND ADULTS

Better than  
Castor Oil



Manufactured by  
**BROOK, PARKER & CO. LTD.**  
BRADFORD, ENGLAND.

*A new Bacteriostatic*



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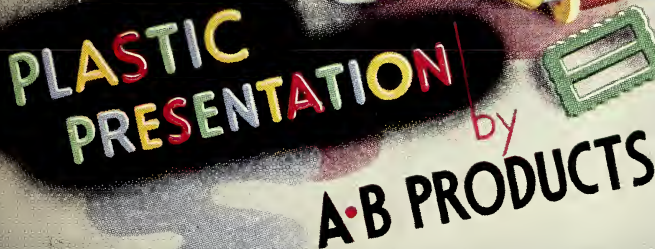
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**NEWS OF THE WEEK**

**Third Reading of N.I. Bill.**—The Medicines, Pharmacy and Poisons Bill (Northern Ireland) has received its Third Reading in the Northern Ireland House of Commons and has gone forward to the Senate.

**End of War Damage Insurance.**—The Board of Trade announces that the issue of policies of insurance under the Commodity Insurance, Business and Private Chattels Schemes has ceased. Current policies remain operative until their dates of expiry.

**Petrol for Traders.**—The Ministry of War Transport announces that increased quantities of petrol for delivery of goods from shops, available since November 1944 to grocers and dealers in certain other foods, are now extended to any retail delivery pool or to any individual trader where there is no pool.

**Franco-British Industrial Committee.**—A permanent Franco-British Industrial Liaison Committee is being set up to continue and amplify an exchange of information that took place during the visit to London recently of a delegation of French

industrialists at the invitation of the Federation of British Industries.

**Post Office Whitsun Services.**—In all districts where Saturday, May 19, is observed as a holiday, postal services (including hours of counter business) will be modified and in some cases reduced to the level of those afforded on a normal bank holiday. Details of such modifications will be announced locally. Telegraph delivery services will be maintained as on an ordinary week-day. On Whit Monday (May 21) in England, Wales and Northern Ireland, both postal and telegraph facilities, including hours of counter business, deliveries and collections, will be as on a normal bank holiday.

**Withdrawal of Purchase Tax Exemption Limit.**—The Treasury has made an Order entitled the Purchase Tax (Suspension of Registration Limit) Order, 1945, the effect of which is to abolish the present exemption from registration and tax of small manufacturers and others whose sales of goods liable to purchase tax do not exceed £500



a year. Accordingly all persons whose business (whether it is a full- or part-time occupation) includes the making and selling of goods liable to purchase tax will now be required to apply for registration unless they are already registered. The requirement applies equally to persons who perform any process in the production of goods liable to purchase tax which they sell or intend to sell, and also to persons who have their own materials processed or made up into goods liable to purchase tax by another person with a view to sale. The Order comes into operation, subject to the approval of the House of Commons, on July 1, 1945, and all persons concerned are advised to apply for registration as early as possible. The necessary form of application (P.T. 1 C) together with a list of goods liable to purchase tax, may be obtained from any officer of the Customs and Excise, or from the Secretaries' Office, Customs and Excise, City Gate House, Finsbury Square, London, E.C.2. (Editorial comment, p. 509).

**International Conference on Trade Restrictions.**—A special committee of the United States House of Representatives has recommended an international conference for the purpose of reducing or removing trade restrictions as a contribution to international peace.

**Romford Branch Officers.**—The annual meeting of the Romford Branch of the Pharmaceutical Society was held recently, when the following officers were elected: *Chairman*, Mr. E. V. Thomas; *Vice-chairmen*, Messrs. S. A. Hampton and R. E. Frizzell; *Treasurer*, Mr. F. W. Paterson; *Secretary*, Mr. W. D. M. Kemp.

**Penicillin Factory Progress.**—A report in the "Liverpool Daily Post" states that the £1-million factory for the production of penicillin which is being erected at Speke by the Distillers Co., Ltd., as agents for the Ministry of Supply, is now nearing completion. Work is expected to commence at the factory before the end of the summer.

**Walsall Branch Officers.**—Walsall Branches of the National Pharmaceutical Union and Pharmaceutical Society held their annual meetings on May 1, when the following joint officers were elected: *Chairman*, Mr. R. J. B. Shelley; *Vice-chairman*, Mr. B. Evans; *Secretary*, Mr. K. V. Hartshorne; *Treasurer*, Mr. F. H. Stephenson; *Branch Representatives*, Messrs. R. J. B. Shelley and K. V. Hartshorne.

**Industrial Savings.**—At a meeting of the Industrial Savings League, held in Edin-

burgh recently, the Lady Provost presented shields to the Edinburgh Essence (leaders in the manufacturing chemists' section with 66.6 per cent. contributors and weekly subscriptions of 10s. 10d. per head). Second in the section were J. F. Macfarlane & Co. Three companies (Pinkerton, Gibb & Co., Ltd., Duncan, Flockhart & Co., and Raimes, Clark & Co., Ltd.) tied for third place with 94 points each.

**Soft Drinks Industry.**—Replies to a questionnaire dealing with the future of the soft drinks industry were discussed at a meeting of the board of the National Union of Mineral Water Manufacturers' Associations, Ltd., in London, recent when a resolution was passed authorising the taking of immediate steps to draw up proposals for a new organisation permitting direct membership, with special provision for the affiliation of Scottish and Northern Ireland associations. It is understood that a new body will be a non-incorporated society.

**British Association of Chemists.**—The annual report of the London section committee of the British Association of Chemists for 1944-45 gives the number of members during the twelve months as 7, a decrease on the previous year's figure resulting from a transfer of many members to new sections and groups. Results of a questionnaire sent out to members show that most members prefer lectures on technical subjects and that the format of branches on a geographical basis rather than in factory groups is favoured.

**British Scientific Instruments.**—At luncheon of the Scientific Instruments Association of Great Britain, held in London on May 14, Lord Sempill declared that immense opportunity lay before the British scientific-instruments industry, to which a greater measure of vigorous co-operation must be given by the Government. The industry today had an output valued at £30 million, and employed between 50,000 and 60,000 workpeople. Professor I. Heilbron (scientific adviser to the Ministry of Production) urged the formation of a Ministry of Science as a department of the State.

**Tunbridge Wells Annual Meeting.**—The annual meeting of the Tunbridge Wells Branch of the Pharmaceutical Society was held on April 18, when the following officers were elected: *Chairman*, Mr. A. S. Smyth; *Vice-chairman*, Miss Wallis; *Secretary*, Mr. J. O. Davidson, 72 Mount Pleasant; *Treasurer*, Mr. G. Gardiner. An address

given by Mr. W. S. Howells (a member of the Society's Council) on "Some Post-war problems of Pharmacy." Mr. Howells gave an able survey of problems ahead, and was listened to with great interest. Lively discussion took place, and questions were answered by Mr. Howells. A collection for the Benevolent Fund realised the record total of £4 17s.

**Newcastle Branch Officers.**—At the twenty-third annual meeting of the Newcastle District and Northumberland Branch of the Pharmaceutical Society held on April 7, the following officers were elected or re-elected: *President*, Miss K. Bell; *Vice-president*, Mr. H. B. Watkins; *Treasurer*, Mr. J. Ridley; *Secretary*, Mr. W. R. Webster, 4 Mitcham Crescent, Newcastle-Tyne, 7. *Auditors*, Messrs. T. M. Simpson and A. V. Atkins. Following the official business, three five-minute talks were given by Mr. G. H. M. Graham on "The N.P.U. Business Purchase and Guarantee Fund," Miss Isobel Hay on "Activities of the Newcastle Branch of Women Pharmacists"; and Mr. W. H. Hewell on "Employee Organisations."

**Merchant Shipping Medical Scales.**—The Ministry of War Transport publication "Merchant Shipping Medical Scales" has been reprinted, and now incorporates all amendments and additions communicated to owners and masters to date, together with further amendments, of which the following are the principal:—

(a) Ampoule syringes containing total opium alkaloids have been added to Scales II and III; morphine tablets have been added to Scale III.

(b) The design of the ships' medical cabinet has again been amended.

(c) "Merchant Shipping Medical Scales," latest edition with amendments, has been added, as a book to be carried, to Scales I, II and III.

Copies of the publication may be obtained from H.M. Stationery Office, price 9d.

**Gaelic Social.**—The Chemists' Camogie Club, Dublin, held a Gaelic social in Dublin on April 26. Among the guests were Mr. and Mrs. P. C. Cahill, Mr. and Mrs. F. X. Meagher, Miss M. C. Fox, Mr. Shiel, Messrs. Peter Rosney (chairman) and T. J. Banks (captain) of the G.A.A. Club, P. Moran (Rugby Club), Philip Fahey (Golfing Society) and Mr. Charles Ward (president, Students' Representative Council). Among those who contributed to the entertainment were Mrs. Meagher, Miss M. Sullivan, Messrs. M. Flynn, E. Hayes, and

Bobby Nutty. A special feature was the hornpipe danced by Miss Anna Dorrian of the Camogie Club and Mr. Jim Kennedy of the G.A.A. Club. Mr. Seamus Fox acted as M.C. Miss Cora Gaffney (chairman of the Club) welcomed the guests, and Miss A. Dorrian (captain) gave an account of the Club since its formation. Messrs. P. C. Cahill and F. X. Meagher also spoke.

**Manchester Annual Meetings.**—The annual meeting of the Manchester Pharmaceutical Association, Junior Branch, and local branch of the Pharmaceutical Society, were held recently, the Association president (Mr. W. E. Phillipson) in the chair. The report of the council and branch executive was submitted by the secretary (Mr. T. Miller), while the junior secretary (Mr. J. Tomlinson) read the report of the junior executive. The treasurer (Mr. G. V. Tyler) submitted his annual reports and balance sheets. The council of the Association, executive of the branch, and the junior branch executive were all elected—the Council by ballot vote. Votes of thanks were accorded to the president of the Association and chairman of the Branch (Mr. Harry Brindle). Messrs. Phillipson and Cronin, who were Branch Representatives at the meeting in London in 1944, reported their impressions on the papers and resolutions submitted.

**"Bucket" Shops No Longer.**—The following statement has been issued by the Ministry of Home Security: In February 1941, an invitation was addressed to proprietors of pharmacies to take part in a scheme for making bleach cream available for public use outside their shops in the event of attack by blister gas. Response to this invitation was excellent, and some 15,000 pharmacies expressed their willingness to take part. To all these the Minister of Home Security now conveys his thanks. Although it has fortunately never been necessary to put the scheme into operation, its existence has been an intrinsic part of the Government's anti-gas precautions for the public, and the Minister does not doubt that the pharmacists would have done their part if need had come. As part of the scheme, participating pharmacists were provided with two enamel pails on loan from Government stocks through the local authority. Pharmacists may now, if they wish, keep these pails, but if they do not wish to do so should return them to the local authority. Any bleach powder that may have been furnished to the pharmacy by the local authority need not be returned.

## LEGAL REPORTS

**Lipsticks from Candles.**—For offences under the Toilet Preparations Order, Albert Wilde, Toad Lane, Rochdale, was recently fined £35 at Rochdale. Lipsticks made from candles, which cost 1½d. and were sold for 10d. to Lancashire mill girls, were found in his home.

**Combs at Excessive Prices.**—At Blackpool, on April 23, Kiluye Nagai, Coronation Street, was fined a total of £14 with £3 13s. 6d. costs, for selling combs and hair grips at more than the controlled price and for not displaying maximum prices. She was alleged to have charged an inspector 2s. 9d., 1s. and 2s. for combs worth respectively 10d., 10d., and 8½d., and 8½d. for six hair-grips (controlled price, 1½d.).

**Poisons Sale by Drug-store.**—At the Marylebone, London, magistrates' court on May 3, Brondesbury Drug Stores, Ltd., Park Lane, W.1, was summoned for selling, at 338 Kilburn High Road, N.W.6, a poison (acetanilide in Antikamnia tablets) contrary to the Pharmacy and Poisons Act, 1933. Defendants alleged that the Pharmaceutical Society's inspector had not affected a genuine purchase, but the inspector denied that the tablets had been "whedded or forced" out of the manageress. The managing director of Amblins, Ltd., wholesale chemists, said the shop was in front of his premises. The manageress asked him if she was right to sell the packet of tablets, and he said "No," and asked her where she got them. So far as he knew nothing that the company had not the right to sell had been left in the shop after a qualified man had ceased to be employed. The magistrate said he was satisfied that there had been a sale, but dismissed the charge on payment of £5 5s. costs.

**Diabetic Coma While Driving.**—The question whether a car driver, diagnosed as being in a state of diabetic coma, was under the influence of a drug whilst driving a car was raised in a prosecution under the Road Traffic Act at Bournemouth recently. The evidence was that, following a collision between two cars, it was not apparent whether defendant was ill or intoxicated. A police surgeon who examined him stated that, superficially, the man might have been under the influence of alcohol, but tests were against an alcoholic origin for the coma. Reference to a diabetic association was found in defendant's wallet, and the surgeon came to the conclusion that he was suffering from insulin poisoning; when

treated for this, defendant responded. Defendant's solicitor pointed out that the motorist was under the care of his doctor who had prescribed insulin for him; at the time of the accident he was taking what the solicitor preferred to call a medicine rather than a drug. It might be that defendant had not had sufficient carbohydrate with his midday meal, but he had followed the best advice he could get. The Bench found the case proved, imposed a fine, and suspended defendant's driving licence for twelve months.

**Zinc in Gelatin.**—An action in which it was alleged that gelatin, sold as edible, contained an illegal amount of zinc, was brought in the King's Bench Division, London, on May 14, against Clifford Clay Coram Street, Bloomsbury, W.C.1. The plaintiff was Louis Kanner, merchant, who claimed the return of £546 paid for 30 cwt ground gelatin supplied by defendant in 1943. This was alleged to be unfit for human consumption. For the plaintiff it was explained that there were two kinds of gelatin: one was edible, and the other was used in glues and similar materials. During the war, a practice had grown up of mixing some of the non-edible gelatin with the edible quality. A certain amount of zinc was added to the non-edible sort as a preservative. Edible gelatin should contain no zinc, but no action was taken if the material did not contain more than 100 parts per million. In this case one sample of the gelatin was found to contain 300 parts, and another 200 parts of zinc. That meant that the consignment was a "job lot," some of which was completely inedible, whereas Clay had told Kanner he could guarantee it was edible.

For the defence it was claimed that the gelatin was sold as being, in bulk, of edible quality. Taken as a whole, it was edible. The plaintiff took samples from only two bags. Dr. W. Ferguson, analytical chemist, said that a sample which he analysed contained 110 parts of zinc and was therefore, in his opinion, satisfactory as an edible commodity. Giving judgment for plaintiff, the Judge said the gelatin was sold to him as edible. Gelatin on a sample showing only twenty-seven parts of zinc. As, on analysis, it appeared that at least two of the bags could not be described as edible gelatin, Kanner was entitled to reject the goods. He was not bound to analyse the whole lot. As he had sold a few of the bags there would be judgment for him for £507, with costs.



## TOPICAL REFLECTIONS

### Retrospect and Prospect

During the past few days we have been given many accounts, long or short, of the momentous events of the war—now ended in the European section. No one is likely to tackle all (or even most) of them; but I read with appreciation your editorial *résumé* (pp. 483–85) of the outstanding features of the struggle as it affected the drug and chemical industries and pharmacy. It would be superfluous on my part to add anything to what you have so concisely expressed: I therefore propose to take a forward glance. The fact that we naturally demand a breathing space, however brief, before girding on our armour fresh renders the moment appropriate. In the post-war world, it hardly needs to be said, science has a contribution of the highest importance to make towards the general welfare. This contribution, I suggest, can best be made by the repeated exercise of scientific thought. In "Science and the Modern World" (1926) A. N. Whitehead writes: "If science is not to degenerate into a medley of *ad hoc* hypotheses, it must become philosophical and must enter upon a thorough criticism of its own foundations." For a reason that will appear, I must demur to Professor Whitehead's use of the word "philosophical": I prefer to say that the various sciences must explore the meanings of the results obtained. Something is in fact being done in this matter. In my limited space I must rely mainly on a few quotations, leaving your readers to work out their implications.

### Gaps in Knowledge

Fully equipped scientific thinkers will always hesitate to build theories on gaps in knowledge. A. E. Heath puts the point thus in "Science Today" (1934): "... we must always be prepared to find that some facts remain stubbornly irreducible to any 'order' we are likely to discern. Indeed the factual discrepancies in a theory are the rough edges of the building, showing where the next advance is likely to be. . . . It is the chief glory of science," Professor Hodgeben rightly remarks, "that its answers are always incomplete." Professor Heath is of opinion that "no synoptic view worth the name can possibly be achieved without including human studies (biological, psychological, sociological) in its scope. These less mature sciences have not, as yet, received the attention they deserve from philosophers, who have been dazzled by the

brilliant achievements of physics. Before we can attempt new unities, in a world distracted by partial views and specialist inconsequence, this deficiency must be made good." By "synoptic view" or "synoptic science" this writer means something short of the complete integration that can be called a philosophy, something more consonant with our present state of knowledge. Hence my demurrer given above. Finally, Dr. R. R. Marrett, in another part of the same book, writes: "Philosophy is to science as poetry to prose, putting a severer strain on the constructive imagination and consequently embodying more of the personality of the author." With this significant remark I must conclude, for the time being, my quotations and the comments they have prompted me to make.

### A Quaint Suggestion

In Hone's "Every Day Book," under the date February 25, 1826, the following passage occurs: "... these [chemists and apothecaries] have never been canonized, yet their names would not sound badly in the calendar: for instance, St. William Allen, of Plough Court; St. Anderson, of Fleet Street; St. Cribb, of High Holborn; St. Hardy, of Walworth; St. Fidler, of Peckham; St. Perfect, of Hammersmith, &c." There is much virtue in the "&c.," for without it the omissions would have been more remarkable than some of the inclusions. The name of William Allen needs no descriptive addition, but who are the other worthies mentioned? It is easy to think of several chemists' businesses of the year 1826 that are still carried on under the same or other names. Such representative people or firms as John Bell & Co., Blake & Son, Cooke & Meggeson, Corby & Co., W. Bryden (predecessor of Thomas Dakin), Godfrey & Cooke, T. N. R. Morson, Savory & Moore and John Scott (whose business Peter Squire purchased) might have engaged the attention of the industrious Hone. How is it that he contented himself with so fragmentary a list of embryo saints? The fact that William Hone (1780–1842) was a bookseller as well as an author warrants two possible explanations. He may have put down the names of some of his best customers as a compliment, or he may have selected a few of his personal friends for a jocular publicity to which they may or may not have been consenting parties.

**Xrayser**

## BIRTH

JOHNSON.—At Chiswick maternity hospital, on May 5, Pamela Margaret Johnson, younger daughter of Mr. S. F. Clark (chemists' valuer), Richmond, of a son.

## MARRIAGE

MCCAULEY—HANLON.—At St. Columba's Church, Iona Road, Dublin, recently, Gerald B. McCauley, M.P.S.I., to Molly Hanlon, Drumcondra, Dublin. Mr. McCauley is a brother of Mr. S. McCauley (managing director, Irish Pharmaceuticals, Ltd.) and has been associated with the work of the company for many years.

## DEATHS

BODLEY.—On April 23, Mr. William George Price Bodley, M.P.S., 271 Lichfield Road, Four Oaks, Sutton Coldfield, aged sixty-two.

CATHRO.—On April 28, Mr. Thomas Gorrie Cathro, M.P.S., 103 Main Street, Frodsham, Cheshire, aged seventy.

ELLIS.—At College Street, Stratford-on-Avon, on April 27, Mr. F. E. E. Ellis, aged eighty. Mr. Ellis went to Stratford-on-Avon in 1885 as assistant and later as manager to C. F. Loggin, chemist, 3 High Street, where he remained until 1937, when his daughter, Miss W. M. Ellis, M.P.S., acquired the business.

GIBSON.—At 22 Clifton Gardens, Brighton, recently, Alderman S. G. Gibson, son of the late Mr. W. H. Gibson (treasurer of the Pharmaceutical Society of Great Britain, 1910-18). Alderman Gibson served an apprenticeship to his father, but afterwards turned to journalism. Later he acted for many years as managing director of the company founded by his father, retiring fourteen years ago.

INNIS.—Recently, Mr. A. Lewis Inniss (governing director, A. Lewis Inniss, Ltd., wholesale druggists and sundriesmen, 60 Henry Street, Port-of-Spain, Trinidad), aged sixty-two. Mr. Inniss was the founder of the first and only purely wholesale drug business in Trinidad. He was closely associated with many local social, religious and charitable organisations, and was a vice-president of the Trinidad Auxiliary of the British and Foreign Bible Society. He is survived by his widow and three children, the eldest of whom (Mr. S. M. L. Inniss) succeeds him in the management of the business.

SHIRTLIFF.—On May 12, Mr. William Edward Daniell Shirliff, M.P.S., 24 Slade Rise, Enfield, formerly of Shepherd Bush, London, aged seventy. At the time of his death Mr. Shirliff was a member of the Pharmaceutical Committee for the County of London, of which he was chairman in 1940. He took a keen interest in National Health Insurance matters, and was an ardent worker for the welfare of London retail chemists. He was a member of the Executive Committee of the London County Pharmaceutical Association and its president in 1921 and 1942. Mr. Shirliff was active in the Western Pharmacists' Association, its secretary for many years and treasurer from 1925 to 1944; he was elected president in 1917 and again in 1927 for two years. He was for many years a member of the Edward Perry Lodge of Freemasons, No. 2722. The funeral service was at Golder's Green on May 17.

WOODWARK.—At the Westminster Hospital, London, on May 11, Sir Stanley Woodward, C.M.G., C.B.E., M.D. (consulting physician to the Hospital), aged seventy. Sir Stanley served terms as Master of the Society of Apothecaries of London and of the Barbers' Company, and it was while Master of the Apothecaries that he contributed a New Year's greeting to THE CHEMIST AND DRUGGIST (1944.I.7). During the war of 1914-18 he was consulting physician to the British Army. From 1920 to 1934 he was dean of the medical school at Westminster Hospital and was for some years medical arbitrator for the Trades Union Friendly Societies Insurance Fund. He also was president of the Royal Institute of Public Health.

## COMPANY NEWS

MAY, ROBERTS (IRELAND), LTD.—Dividend on ordinary shares of 11½ per cent has been declared.

BOOTS PURE DRUG CO., LTD.—Sir Jacob Drummond, F.R.S., B.Sc., F.R.I.C. (chief scientific adviser to the Ministry of Food) has been appointed director in charge of the company's scientific research. Sir Jacob Drummond has resigned the chair of biochemistry at University College, London, which he has held since 1922, but will not take up his new appointment until the food situation in this country has improved.

DELETED FROM REGISTER.—“The London Gazette, May 1, notifies that Amblin (Chemists), Ltd., has been struck off the Register of Companies.

## TRADE NOTES

**Correction.**—R. Demuth, Ltd., Farnham, Surrey, point out that the purchase of Spic soapless shampoos is 16s. per gross and not as in a recent advertisement.

**Bonus Terms.**—Full details of a bonus of Steiner's Eau Dentifrice are given in this issue by the makers, Dobson & Steiner, Ltd., 17 Old Bond Street, London, W.1.

**Sole Distribution to Pharmacists.**—P.A.C. Chemicals, Ltd., Epsom, Surrey, announce that they have appointed S. Maw, Son & Co., Ltd., Aldersgate House, New Barnet, Herts., to be sole distributors to chemists of their Boon series of toilet and medicinal preparations.

**Adder-bite Serum.**—Allen & Hanburys, Ltd. (retail establishment), 7 Vere Street, London, W.1, announce that they have in stock small supplies of the serum manufactured by the Pasteur Institute, Paris, for use as a treatment for English adder bites. The material is available to pharmacists who receive a request from a local institution or medical man for an ampoule.

**Reintroduced Specialities.**—Flavogel has been reintroduced by Glaxo Laboratories, Ltd., in a new and improved form as a general antiseptic in water-soluble jelly form. It is available in 1½-oz. jars in direct packs containing 2 doz. jars. The following packs of Berin and Celin tablets have been introduced: Berin, 1,000 × 1-mgm.; 500 × 3-mgm. Celin, 500 × 50-mgm.; 1,000 × 50-mgm. Boxes of 5 × 5-cc. ampoules of ammen are now available.

**VE Announcements.**—Advertisers who devote their space in this week's issue to references to the end of the war in Europe include Biddle, Sawyer & Co., Ltd., Empire House, St. Martin's-le-Grand, London, E.1; Burgoyne, Burbidges & Co., Ltd., London, E.6; Burroughs Wellcome & Co., 13 Euston Road, London, N.W.1; Reggie Chemicals (Welwyn), Ltd., Welwyn Garden City; N. & M. Gould, Ltd., Stoney Lane, London, E.C.3; and Potter & Clarke, Ltd., London, E.1.

**Famine Aid to France.**—Dr. W. E. Hunt and Mr. D. I. Duveen, two of the directors of Ashe Laboratories, Ltd., 120 Victoria Street, London, S.W.1, have been gently invited by the French Government to give assistance in the technique and installation of plant to produce "F" famine diet in Paris to cope with the masses of starved deportees now returning to France

from labour camps and concentration camps in Nazi Germany. Mr. Duveen has recently been appointed a director of the company.

## Business Changes

MR. CHARLES S. HOYE states that his address is now c/o Pharmacy Scott, 348 Rue St. Honoré, Paris, 1<sup>er</sup>.

AMBRESIL, LTD., have transferred their offices to 31 East Parade, Harrogate. The works remain at Tower Street, Harrogate.

MARSHALL'S PROPRIETARIES, LTD., is the new title of the company formerly known as Marshall's Agencies, Ltd., 41-43 Dockhead, London, S.E.1.

THE telephone number of WHIFFEN & SONS, LTD., manufacturing chemists, Aldersgate Works, Carnwath Road, Fulham, London, S.W.6, is now Renown 3416.

RONSHIEM & MOORE (The Gardinol Chemical Co., Ltd.) have removed to Grosvenor Gardens House, Grosvenor Gardens, London, S.W.1 (Telephone: Victoria 0331). Goods should be sent to 16 Station Way, Cheam, Surrey.

MR. CHARLES BEAVEN, Ph.C., who was for many years senior lecturer and demonstrator at the South of England College of Pharmacy, London, has joined the medical and scientific department of Parke, Davis & Co. During the last five years he has been attached to the Army Medical Directorate at the War Office.

## Proprietary Articles Trade Association

**Additions to Protected List.**—*The British Drug Houses, Ltd.* All medicinal proprietary products included in the medical products section of the current B.D.H. price list are protected through the P.A.T.A. at the prices quoted in that section of the list.

*Pharman (Birtley), Ltd.* Tuss children's cherry cough-syrup, 3-oz., 8s. 6d. doz., tax 1s. 5d. doz., inclusive retail price 1s. 3d.; Magaffin, 8-oz., 15s. 6d. doz., tax 2s. 7d. doz., i.r.p. 2s. 3d.; Pharman's medicated dusting-powder, boxes, 5s. 9d. doz., tax 1s. doz., i.r.p. 11½d.

**Alterations.**—*Iglodine Co., Ltd.* nasal douche, 1s. 6d., 13s. 6d. doz. (exempt from tax). £2 assorted orders, 12s. 6d. doz.

*Parke, Davis & Co.* cascara sagrada extract tablets, 2-gr. (S.C.T. 261), 25's, 5s. 7½d. doz., tax 11½d. doz., i.r.p. 9½d.; 100's, 13s. 9d. doz., tax 2s. 3½d. doz., i.r.p. 2s.

*A. Wander, Ltd.* Alasil tablets, small size, retailing at 6d., discontinued; size containing thirty tablets reinstated: 30's, 15s. 9d. doz., tax 2s. 7½d. doz., i.r.p. 1s. 11½d.



## CHARLES EDWIN CORFIELD, B.Sc., Ph.C., F.R.I.

An appreciation by Dr. G. R. Boyes, one of the secretaries of the British Pharmaceutical Conference and formerly for many years joint secretary with Mr. Corfield of that body.

By the death of Charles Edwin Corfield, pharmacy has lost one of its most gifted men, and scientific pharmacy, in particular, has sustained an irreparable loss. As lecturer in chemistry and head of the chemistry department in the College of the Pharmaceutical Society from 1918 to 1926, as a member of the board of examiners of the Pharmaceutical Society, as editor of the British Pharmaceutical Codex, the Pharmaceutical Pocket Book and the Extra Pharmacopœia, and as honorary general secretary of the British Pharmaceutical Conference, he was prominently identified with the scientific advancement of pharmacy in this country and, indeed, throughout the world. As a partner in the well-known analytical practice of Harrison & Self, London, he was a recognised authority on the analysis of crude drugs, and not only maintained, but considerably strengthened, the world-wide reputation in that sphere established by his predecessors, the late Colonel E. F. Harrison and the late Mr. P. A. W. Self.

From his early student days it was evident that Corfield's capacity for hard work, combined with a brilliant brain, would mark him out as an outstanding figure in pharmacy. This was even more abundantly evident to students of the Society's College in the years between 1918 and 1926, when his ability as a lecturer and exponent of chemistry made him almost unique among teachers. It is typical of the interest which he always retained for his *alma mater* that his last public speech was made at a dinner held to pay tribute to Dr. W. H. Linnell, his successor in the post of head of the chemistry department, upon his appointment as professor in the University of London.

To his work as editor of the Codex and other scientific books of the Society he gave unstintingly of his knowledge and tirelessly of his energy. These publications will remain for all time a testimony to his skill and ability. As secretary of the British Pharmaceutical Conference for seventeen years, he jealously and studiously guarded the high standard of the science meetings. He was himself a frequent contributor of papers recording the results of his own original investigations, and his part in the discussions of other papers was always forthright and backed by first-hand practical

acquaintance with the problems under discussion. His knowledge and experience were sought by other bodies, such as the board of examiners for London University, pharmaceutical chemistry subcommittee of the Pharmacopœia Commission, Therapeutic Requirements Committee of the Medical Research Council, and the National War Formulary Committee of the Ministry of Health.

Corfield was a man of high principle, firmly held, and of incorruptible honesty. In all he did his motives were unquestionable and he possessed a wealth of sound common sense. He was intolerant of humbug and sham in whatever guise they were found, and ruthless in his exposure and denunciation of them whenever he thought this to be his duty. To those who were privileged to enjoy the inner circle of his friendship, he was a loyal and devoted friend.

### STRUCTURE OF BRITISH CHEMICAL INDUSTRY

STATISTICS relating to the operation of combines in various industries, including drugs and chemicals, were given in a paper recently by the assistant secretary of the Statistics Department, Board of Trade. Demonstrating the degree of concentration of industry in few hands by showing the proportions of persons employed by the three largest units in each trade, he gave the following percentages: In the nickel and nickel alloys, zinc, sugar and glucose, dyes and dyestuffs, and explosives industries, 80 to 90; in the spirit-distilling, photographic apparatus and appliances industries, 70 to 80 per cent. For all census trades taken together, the degree of concentration was calculated at 26 per cent. In other words, about one-quarter of the number of persons engaged in an average productive industry in 1935 were employed by the large units in that industry. The highest concentration was found in the chemical and allied trades, with 48 per cent. concentration. Two concerns (Imperial Chemical Industries, Ltd., and Lever Brothers, Ltd.) operated in seven trades each. Complete monopolies were found in mustard, nitric acid, calcium carbide, acetylene, phosphoric acid, caustic soda, unrefined whale oil, spectacle glass, and vacuum-flasks.

## PERSONALITIES

DERMAN C. A. CRITCHLEY, J.P., Ph.C., been re-elected chairman of Blackburn Assessment Committee.

R. CON CREMEN (president, Pharmaceutical Society of Ireland), who has been for some time, is now convalescing and making a good recovery.

R. J. F. MCNEAL (vice-president, Pharmaceutical Society) addressed members of the Rotary Club of Ipswich on May 3, at the invitation of Mr. L. Piper, M.P.S. (pharmacist member of the Club). The title of his address was "Pharmacy and the Public."

CORPORAL J. ANTHONY E. HOWARD (a son of Mr. Geoffrey E. Howard), who joined the Army in September 1939, went to France in October 1939, and has been a prisoner of war since June 1940, has arrived home safely. Before joining up Corporal Howard was on the staff of Howards & Sons, Ltd., London.

R. W. S. HOWELLS (a member of the Council and a past-president of the Pharmaceutical Society) was the signatory of a letter which appeared in the "East Anglian Daily Times" on May 4, in which he referred to Sir James Grigg (Secretary of State for War) as being "curiously uninformed" in stating in the House of Commons, recently, that he did not think it was true that there were no officer pharmacists in the Army.

MISS L. N. FIRTH, who was recently elected chairman of the Bradford Branch

of the Pharmaceutical Society, passed the qualifying examination in 1920, and gained the Pharmaceutical Chemist diploma in 1921, after training in Leeds and at the Pharmaceutical Society's School, London. She was appointed pharmacist to the West Riding County Council at Middle-

Sanatorium, and later pharmacist at St. Luke's Hospital, Bradford. As chairman of the Yorkshire Branch, Guild of Public Pharmacists, she represented the Yorkshire Branch on the Guild Council in 1943-44, being elected an ordinary member of the Guild Council in 1944 and 1945.

MR. ANDREW OFFICER, M.P.S., 440 St. Vincent Street, Glasgow, C.3, who was

recently re-elected chairman of the Glasgow and South-western Scottish Branch of the Pharmaceutical Society (see C. & D., April 28, p. 426), served his apprenticeship with the late Mr. A. Robertson, Elgin. His training was interrupted by service in the Army in the war of 1914-18, and it

was in 1919 that he qualified in Edinburgh. After some years with Mr. J. H. Campbell, Manchester, he returned to Scotland in 1926, and took over his present business. Always enthusiastic in branch affairs, he became a member of the committee nine years ago. He has held office as vice-chairman and is now in his second year as chairman. He is also a member of the local pharmaceutical war committee, and chairman of his municipal ward committee.

THE RT. HON. WINSTON S. CHURCHILL, P.C., M.P. (Prime Minister), is being awarded the Albert gold medal for 1945 by the Royal Society of Arts "for distinguished merit in promoting arts, manufactures and commerce."

MR. V. ROSS, who was recently re-elected chairman of the Medway Branch of the Pharmaceutical Society, was born in Cumberland, and served his apprenticeship with the late Mr. F. J. Wood at Formby, Lancs. After experience in Liverpool and Hove, he qualified in 1927 from the Brighton College of Pharmacy. In 1930 he accepted a position with Stonham & Son, Ltd., 70 Bank Street, Maidstone, one of the oldest-established pharmaceutical businesses in Kent, dating back to 1762. He is now managing director of the company. Mr. Ross has been associated with the Medway Branch in some official capacity continuously since 1931. He was its chairman in 1934, and secretary, 1941-43, and is now chairman for the second successive year. He has also been for a number of years secretary of the Medway Branch of the National Pharmaceutical Union, of which he is at present both chairman and secretary.





## "F" FAMINE FOOD

by W. E. Gaunt, B.Sc., Ph.D., A.R.I.C. (Ashe Laboratories, Ltd.)

THE "F" famine ration, now being used on the Continent in treating starving people, is a complete pre-digested diet based on the well-established fact that, on digestion into its component amino-acids,

a protein does not lose its nutritional value. It is amino acids and not intact proteins that the body manipulates in keeping its structure in perfect trim.



Dr. W. E. Gaunt

During the past few years Ashe Laboratories, Ltd., have been devising methods by which proteins may be transformed into mixtures of the amino-acids enter-

ing into their composition, and several processes have now been evolved and put into production. The original intention was to provide a complete predigested food for the treatment of human ills, a diet to nourish the body of the invalid and premature or ailing infant, one that could be absorbed or injected directly into the bloodstream without any effort on the part of the patient. As information on the conditions obtaining in concentration and prisoner-of-war camps in Nazi Germany came to the company's notice, it was seen that pre-digested proteins would afford the only opportunity of life to the many starving people who would come into Allied hands when Europe was freed from Nazi domination. Production has been increased to the greatest extent for that reason.

### Constituents of "F" Food

The "F" food actually contains glucose, amino-acids, mineral salts and vitamins, the former materials being the final products obtained by digestion of carbohydrates and proteins in the human system. By its oral use the process of digestion in the alimentary canal is eliminated, and the material can be used successfully in this way in cases where the alimentary canal is working inefficiently. When the alimentary canal is completely out of commission, "F" food can be given intravenously, thus cutting out the processes both of digestion and of absorption.

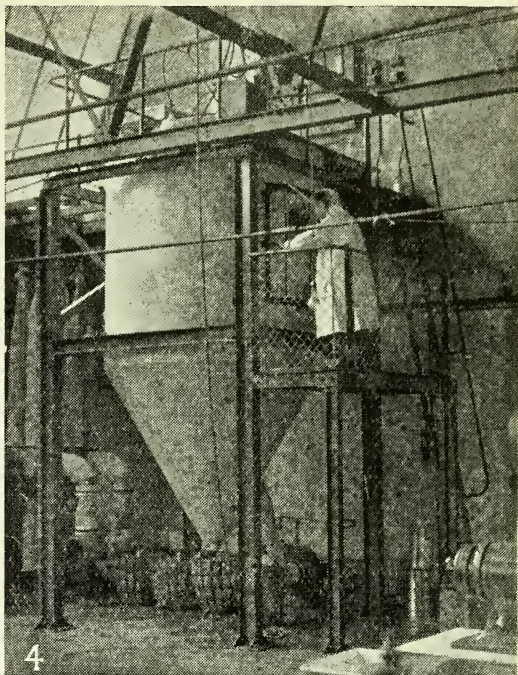
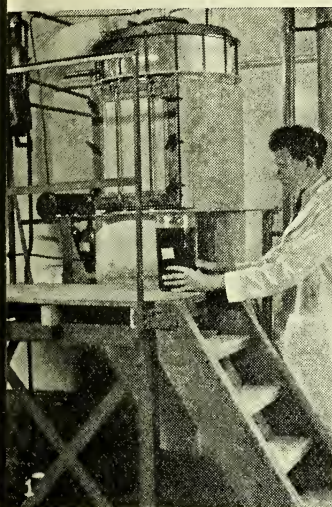
Why is "F" food so all-important to people suffering from chronic starvation? Normally people eat enough food every day to meet the needs of the body to provide for tissue replacement and work. The proteins in the food are used as raw materials for the synthesis within the body of new proteins, amongst which are included the digestive enzymes. In starvation, the body is not getting enough to meet its needs, and any reserves previously within the body and its tissues, in particular any protein reserves, are called upon to make good the deficiency, resulting in loss of weight. In extreme starvation or prolonged malnutrition the reserves become exhausted, almost all proteins are withdrawn from the muscles and tissues, the subject becomes just "skin and bone," there is no energy left, no raw materials in the system for the manufacture of digestive enzymes.

### Ordinary Foods Useless

Normal foods taken orally cannot be digested, nor, though they contain raw materials for enzyme production, do they afford physical advantage or gain: they are merely excreted unchanged. A diarrhoea is then established which is invariably fatal. The only way to break down this vicious cycle is to administer to the starving patient a predigested protein that will fortify the body without any effort on the part of the digestive system, and so provide, direct to the tissues, all the materials necessary for the body to regain its essential digestive enzymes. The predigested protein now being made in Europe is produced as a solution of amino acids, which is then spray-dried into a cream-coloured powder for ease of transport.

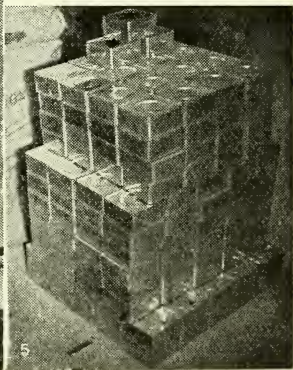
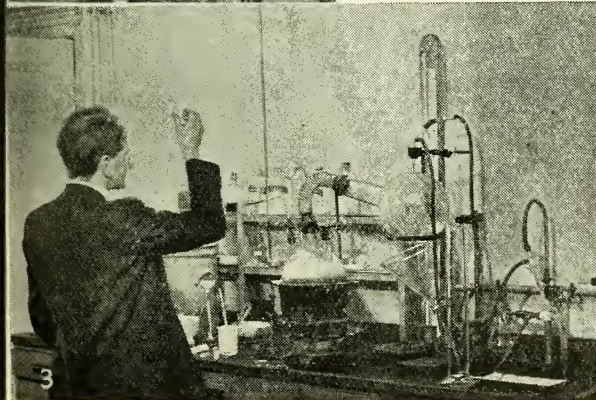
For use in the field, 50 gm. of the diet is mixed with 150 gm. of glucose dissolved together with B vitamins about two litres of water. The solution, given by stomach-tube, the dose being repeated daily for three or four days, after which time the patient is again able to eat more normal foods. The most extreme cases of starvation are given "F" food by vein. For this purpose, the "F" food is supplied already in solution, in pyrogen-free sterile distilled water. Many thousands of cases are being treated daily—many thousands of victims of months and even years of starvation, who, without the "F" food, would surely have died.





### STAGES IN PRODUCTION OF "F" FOOD

1. Miniature spray dryer, used in the preliminary experiments.
2. Vessel in which the process of human digestion is reproduced.
3. Determining the extent of digestion during the preparation of a batch.
4. Large spray dryer installed for bulk production.
5. 237  $\times$  5  $\frac{1}{4}$ -lb. tins ready to be flown overseas—enough for 12,000 people for one day.



## BRITISH BRUSH MANUFACTURERS

IMPORTANT war and post-war problems were discussed at the annual meeting of the British Brush Manufacturers' Association held in London on May 10. The Council's report records that the industry had a lower output than in the previous year, owing to shortage of labour. The Government and the public, however, have become aware of the need for brushes, and have asked the industry's and the Association's help as never before. The Association now has 343 members. About the time of the invasion of the Continent it was thought that transport of bristle would be difficult, and arrangements were made with the Ministry of Supply for special licences to enable manufacturers to hold more bristle than usual in stock. The Ministry has allowed the use of a greater proportion of bristle in processing brushes during the year and, at the request of the Association, the Rubber Control agreed to release synthetic rubber for the manufacture of certain brushes, while the Ministry of Supply permitted the use of Nylon in tooth- and various industrial brushes. No changes have been made in the method of controlling prices, and the Association has endeavoured to restrain various traders from overcharging.

The group concerned with toilet brushes held two meetings during the year and there have been some committee meetings, the principal business including considera-

tion of prices for brushes filled with Nylon. The tooth-brush group has complained that official supply arrangements to Empire countries by producers outside the Empire have been made without any notification to manufacturers within the U.K. who normally supplied those countries. An official assurance has now been given that future arrangements of this kind will not be made without the group being notified. Other business included arrangements made with the Board of Trade for emergency supplies of brushes for bombed towns, preparation of an estimate of the post-war requirements of timber for brush-making, and preparation of a scheme for ascertaining the output of the brush-making industry during any given period after the war.

### Election of Officers

The following officers were elected for the year: *President*, Mr. R. Addis (Addis, Ltd.); *Vice-presidents*, Messrs. W. H. Chadwick (Chadwick & Shapcott, Ltd.) and A. E. Webb (Webb & Foulger, Ltd.); *Treasurer*, Mr. A. R. Culmer (Culmak, Ltd.); *Auditor*, Mr. C. S. Holton (Webb & Foulger, Ltd.); *Secretary*, Mr. T. M. Till; *Assistant Secretary*, Mr. J. C. Butler.

At the annual luncheon, held the same day, a portrait in oils of Mr. W. H. Chadwick (president, 1941-43) was exhibited. Members from all parts of the country contributed towards the cost of the portrait.

## CHEMICAL MERCHANTS' ANNUAL MEETING

THE twenty-second annual meeting of the British Chemical and Dyestuffs Traders' Association was held in London on May 8. Following the adoption of the accounts, THE CHAIRMAN (Mr. G. S. Bache) presented the annual report, from which the following points have been extracted:—

### Consideration to Post-war Problems

The past year was one of continued activity for the Association, and I believe the various sections of the trade have received helpful service. Questions relating to the operation of controls were constantly under review, and active consideration was given to the position the merchant is likely to occupy during the period of transition from war to peace. Representations made by the Association on the subject were sympathetically received. A number of materials have been released from control, and there

is an indication that other vital raw materials will shortly be freed from restriction, and distribution and marketing revert to established trade channels. Practically all the materials covered by the Association's coal-tar products group are subject either to statutory control or to some form of official supervision. Certain aspects of the controls have been examined by *ad hoc* committees established by the group, and consultations with the Ministry of Fuel and Power have been of great value. At the invitation of the Ministry, the Association appointed a representative to serve on the Ministry's Benzole and Coal Spirit Advisory Committee set up to assist in the smooth working of the Benzole and Coal Spirit Order. Information of special interest to merchants handling coal-tar products is notified by the Ministry through the Association.



### Distribution of Pharmaceutical Chemicals

The distribution of pharmaceutical chemicals organised on behalf of the Ministry of Supply by the drugs and pharmaceuticals importers' section of the Association operated smoothly throughout the year. At the request of the Directorate of Medical Supplies the Association has recently undertaken the work of arranging import allocations for a number of products which are to be permitted to be imported in limited quantities, under licence, through commercial channels. The Association has contacted the Board of Trade and Ministry of Supply on the subject of the orderly disposal of Government surpluses of chemicals. Arrangements are well in hand for disposal through trade channels of pharmaceutical chemicals, and surpluses of such products are normally distributed through merchants will come under a disposals scheme organised by the Association. In other sections of the trade the method of dealing with surpluses, if any, has not yet been finalised, but it is known that Government departments propose, in appropriate cases, to arrange for return of the surpluses to the producers.

### Pressure for Bolder Import Policy

It is hoped that every opportunity will be taken by the Controls to release material to enable British industry to satisfy essential consumer needs of the home market, and will also give that vital assistance which is imperative if there is to be a speedy redevelopment of British overseas trade. To achieve these purposes the Association will press for a bolder import policy for raw materials. Members must be vigilant to see that controls that have outlived their usefulness and which serve only to delay peace-time trade revival are removed or considerably modified.

The report was adopted with expressions of warm approval.

### Election of Officers

The following officers were elected for the year:— *President*, Mr. Victor Blagden; *Vice-president*, Mr. S. J. C. Mason; *Chairman*, Mr. C. W. Lovegrove; *Vice-chairman*, Mr. W. S. Adpar Jones; *Treasurer*, Mr. E. F. J. Arnold; *Auditor*, Mr. B. C. Hughes; *Executive Council*, Messrs. N. Gilliat, C. H. Wilson, G. S. Bache, D. G. D. Greenhough, A. Nash, and A. S. Todd.

## FORTY YEARS' SERVICE TO BATH PHARMACY

On May 9, Mr. W. J. Hallett, Galen, Prester Road, Bath, who recently retired from the secretaryship of the Bath Branch of the Pharmaceutical Society, was entertained by the members of the Branch to

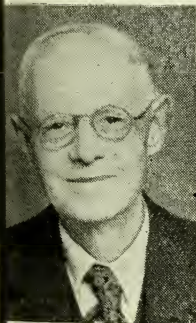
mark their appreciation of his services to pharmacy in the city during the past forty years.

Mr. L. Williams (president) paid tribute to Mr. Hallett's efforts throughout that period, saying that, had not Mr. Hallett founded the former local association, predecessor of the branch, in 1905, and carried on and inspired others in

Mr. LUTHER WILSON, as "one of the pioneers" who had joined Mr. Hallett in starting the former association, said he had had the privilege of working with Mr. Hallett during the whole period, and the great satisfaction of seeing the result of those early efforts crowned in the achievements of recent years. Mr. Wilson then, on behalf of the Branch, asked Mr. Hallett to accept a cheque in recognition of members' appreciation of what he had accomplished, and their esteem of him as a friend and brother pharmacist. He wished the recipient many more years of life in which to look back upon the happy days they had spent together. Mr. HALLETT, acknowledging the tributes of his colleagues, thanked them all for their generosity and comradeship, and assured them he would always have rich memories of the friends he had found in local pharmaceutical life.

### Exhibition of Souvenirs

During the evening Mrs. Hallett was presented with a handsome bouquet of flowers, and an exhibition of early members' cards, invitations, and social programmes awakened, among those present, memories of old pharmaceutical events and personalities in the "Queen City of the West."



Mr. W. J. Hallett, M.P.S.

the work through the succeeding years, were might not be the live and energetic organisation members now knew. His fellow members, said Mr. Williams, were fully cognisant of all that these efforts meant, and had determined to mark the occasion in a fitting manner.



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XLIII MAY 19, 1945 NO. 3406

act that goods made of raw materials for supply owing to war conditions are used in this paper or described in its editorial columns should not be taken as an indication that they are necessarily available for export.

## Purchase Tax for All

It came as a shock to many chemists at this time that the Commissioners of Customs and Excise have decided to extend the scope of purchase tax to cover, in effect, practically all businesses in which manufacture is carried on. Hitherto it has been unnecessary for all businesses in which manufacturing is carried on, no matter how small (e.g. chemists making and bottling medicines, toilet preparations or similar articles) to register for purchase tax if their gross takings from sales of chargeable goods (not including those exempted) has not, on the average, exceeded £500 per annum. Under the new Order (see p. 495), which is about to be introduced to the House of Commons for approval, every person who makes and sells chargeable article will be obliged to register for purchase tax. The Order will come into operation on July 1, so there is time to lose in applying for registration. Since purchase tax was introduced early in the war, with the double object of raising revenue and curtailing spending, small manufacturers, such as chemists, have been excluded from registration and taxation

so long as the value of chargeable goods manufactured and sold by them was below the exemption limit, first set at £2,000 per annum and later at £500. Since retail sales of goods not manufactured by the retailer were not counted in computing the exemption figure, many chemists were able to carry on business without worrying about purchase tax on products of their own manufacture. Under the new Order, no question of an exemption limit will arise, as every chargeable article will have to bear the tax, irrespective of the maker's turnover. In the past, chemists have purchased some of their raw materials as tax-free articles, and on others they have had to pay tax. As they were, in most instances, themselves exempt from charging purchase tax as a result of the £500 limit, the tax on tax-paid ingredients was generally passed on to the customer simply as an increased cost.

## Collection of Tax

Under the new Order, chemists, as registered persons, will presumably be able to purchase chargeable raw materials without paying tax, but they themselves will be obliged to compute the tax on the finished goods, pass it on to the customer, and remit the proceeds to the Crown. It is important to note the definition applied, for the purposes of purchase tax, to "manufacturing or making-up" goods. For purchase tax purposes, "making-up" includes putting-up or repacking medicines, drugs, toilet preparations, etc. (including preparations for veterinary use), in a proprietary form or with an added implication by label, literature or otherwise that they are intended for medicinal or toilet use. The making-up of drugs according to a formula prescribed by reference to the requirements of a particular patient is not deemed to be manufacture for purchase tax purposes.

There is not the slightest doubt that the withdrawal of the exemption limit will bear hardly on many chemists at a time when proprietors and staffs are already overburdened with business problems and in no condition to undertake the extra clerical work involved. It is to be hoped, however, that Customs and Excise will appreciate

these circumstances and will endeavour to evolve a simplified scheme for the small trader. It has been supposed that the reason for setting an exemption limit in the first place was to avoid the difficulty of collecting small sums from many thousands of sources at a cost probably far in excess of the revenue received, and it is curious that the authorities should suddenly decide that this laborious procedure is worth while. The fairness of the contention that, if a tax is to be applied to an article, all such articles from whatever source should bear the tax cannot, of course, be disputed. On the other hand, purchase tax has served its war-time purpose as a restrictive charge on industry, and the only conclusion that can reasonably be drawn from this latest extension is that "this novel experiment in raising revenue" is not likely to be cancelled in the near future. It will, however, be no surprise to us should this pettifogging new Order be quickly found impracticable of operation, wasteful, irritating and harmful to trade.

## Beeswax Developments

At a beeswax trade meeting held on May 10, the Ministry of Supply indicated its intention of reverting to normal trade so soon as possible, but announced that about two years' normal supply was in stock. The Ministry was willing to allow free import into the country of beeswax from Empire countries at 175s. f.o.b., and from non-Empire countries, where the beeswax pays a duty of 10 per cent., on the basis of 175s., less the 10 per cent. duty. To enable the Ministry to dispose of its stocks, and so allow the trade to get back into full normal working conditions, the Ministry has decided that, for every ton imported, the shipper shall give a guarantee, when applying for his import licence, to take two tons from the Ministry of Supply's stocks at a price of 205s., which will be the spot price then ruling less 12s. per cwt., thus bringing the price to 193s., which is considered the c.i.f. price (i.e., 175s. plus freight and full insurance). Spot goods are to be taken up on arrival of the c.i.f. parcel, and the whole of the contract will then become free of sale and not subject to Government restrictions

or to those of the Association of Mercantile Distributors of Beeswax, Ltd. From June 1 to the date of the arrivals of the various c.i.f. parcels, all sales will be effected as previously—through the Beeswax Association. The Ministry of Supply will be raising the prices, and hopes to make an announcement on May 26 of new prices to come into effect on June 1.

## Export Credits Guarantee

THE Export Credits Guarantee Department of the Board of Trade has introduced a new and improved guarantee policy giving further protection to the British exporter against the possibility of incurring losses which are inherent in overseas trade. From May 1, the guarantee called the E.C.D. (Contracts) Policy has been available for consumer goods. Whilst retaining its valuable features of the war emergency policy, which it supersedes, it gives further protection to the exporter. The risks covered are:—

- (1) Insolvency or protracted default in payment on the part of the buyer.
- (2) Exchange restrictions in the buyer's country which prevent the transfer of sterling to the United Kingdom.
- (3) Occurrence of war between the buyer's country and the United Kingdom or of war, revolutions, etc., in the buyer's country.
- (4) Cancellation or non-renewal of an export licence or the imposition of restrictions on the export of goods not previously subject to licence.

### Large Percentage Covered

The guarantee covers up to 85 per cent. of the contract price in instances of insolvency or default, and up to 90 per cent. in other cases. In the event of the exporter suffering loss from his buyer's insolvency, he will be paid the guaranteed amount immediately after its occurrence; in the case of default where the debtor's insolvency (as defined in the policy) has not been established, the exporter will be paid two months after the date when the debt is due for payment. For all other risks, claims are normally payable six months after the date of the debt or the occurrence of the event which causes the loss.



other standard guarantee, the G.D. (Shipments) Policy, is available at a lower rate of premium where it is not required to insure against losses incurred on shipment. Provision can also be made, if necessary, for the issue of special guarantees to exporters whose business is in some way exceptional, and for whom the standard policies may therefore not be suitable. Inquiries about the Department's guarantees are invited by the Department; they should be sent to the headquarters of the Export Credits Guarantee Department, 9 Clements Lane, Broad Street, London, E.C.4, or to one of the Branches of the Department in Manchester, Bradford, Birmingham, Glasgow, Belfast and Sheffield.

## War Extensions of Patents

A DEPARTMENTAL Committee on the Patents and Designs Acts which was constituted nearly a year ago has issued its interim report. This deals with a single aspect which was considered by the Committee to be of special urgency, namely the granting to patentees of extensions of the term of their patents in circumstances in which, owing to the war, they have been unable fully to exploit them. The persons and corporations concerned are in the main those who have been so fully occupied with work of national importance that they have had no opportunity of developing their inventions commercially in the manner in which they would have done in conditions of peace. The machinery is already in operation by which such patentees can gain an extension of the term of the patent in compensation for loss suffered by such occupation with more urgent matters. The Committee has, in fact, applied itself to the problems raised by complaints and criticisms from interested parties that the machinery is needlessly complicated and expensive—even, according to some witnesses, prohibitive.

### Unification Urged

Expressed by the arguments put forward, the Committee has unanimously recommended that the practice should be unified, but is divided on the method to

be adopted. A majority proposes that the inventor who has suffered loss of the kind indicated should be allowed to choose whether to apply to the Comptroller or to the Court for an extension of the patent. If he applies to the Comptroller and is not satisfied, he should be allowed to appeal from the decision to the Appeal Courts Tribunal. From his side the Comptroller should be allowed, if an issue should arise which he feels should be the subject of a judicial decision, to refer the matter to the Court. The majority recommendation is put forward by eight members of the Committee. The two remaining members take the view that, while the procedure should be simplified, the jurisdiction of the High Court should not be lessened even to the limited extent suggested in the majority report. It may be noted that the Committee's terms of reference were "to suggest means for expediting and reducing the cost of legal proceedings in patent cases in order to encourage the use of inventions and the progress of industry and trade." Hence the priority given to inventions already in existence but not adequately exploited at the present time.

## PHARMACEUTICAL COUNCIL ELECTION RESULTS

THE result of the election for seven seats on the Council of the Pharmaceutical Society of Great Britain, for which there were eighteen candidates, was as follows:—

DEACON, Walter .. ..	4202
HOWELLS, William Spencer ..	4073
MCNEAL, James Fallows ..	3682
HIRST, Harold Maude ..	3648
WILSON, Frank Clay ..	3505
MELDRUM, Adam Alexander ..	3438
SHAW, Henry Clement ..	2849

*The above are elected.*

SHAW, Granville .. ..	2525
CURRIE, David .. ..	2322
GILMOUR, John .. ..	2217
FOSTER, Bernard .. ..	1996
ARMITAGE, George Henry ..	1927
STEINMAN, Harry .. ..	1927
WOMPRA, Arthur Ardwell ..	1925
ATKINSON, William .. ..	1914
PHILLIPSON, William Edmund ..	1882
ROSS-MANSELL, John .. ..	1572
OWEN, Eirwyn .. ..	1551

## THE STORY OF THE PROTEINS—I

THE advent of the present war saw the science of nutrition take up as vital a position in the defence plans of this country as sciences connected with purely military matters. The vast amount of research that had been carried out between the two world wars had now to be applied on the grand scale. Today, after five years of war, Britain's nutritional policy stands completely endorsed by the present standard of health and well-being of the population. In the present series of articles, one aspect of the problem of nutrition will be dealt with—the proteins. This is, however, an aspect that has taken on a major importance—a fact that becomes clear when it is realised that, during the critical years of large-scale U-boat activity, all shipping space available for food was devoted to bringing supplies of first-class protein into the country.

### Danger of Reduced Protein

At the time of writing, a cut in the already meagre meat ration is threatened, and nutrition experts have been quick to voice their concern lest the protein intake of the population should be reduced any further. It is appropriate, therefore, that at this time, so far as possible in the space available, the whole field of protein knowledge should be reviewed, in order that there may be a better understanding of the issues involved.

Proteins are well described as "the stuff of life." No life exists without them, and every single living cell has its quota. The number of proteins is legion, for every tissue has a characteristic member that differs in some way from the rest of the family, and is specially adapted for the purpose it is fulfilling. Even protein of the same type differs according to its source. For example, each particular species has a specific hæmoglobin that crystallises in a characteristic way: a well-known fact that has found application in forensic chemistry. It has even been reported recently that three different hæmoglobins have been found in human serum alone. Further, of the hormones of the body, upon which normal life is dependent, one (insulin) is a protein and another (thyroxine) is a derivative of tyrosine, an amino-acid that occurs in protein molecules.

It is obvious, therefore, that the supply of protein to the body is of the greatest importance, particularly in young children, in whom rapid tissue growth causes a

steady demand for proteins in the body. The demand can be met in no other way than by obtaining proteins from the food. Nature has provided two main routes by which proteins are elaborated and made available for human consumption: one on land, the other in the sea. On land, plants produce protein by combining carbon dioxide of the air and the water of the soil. Phosphorus and sulphur also enter into the process. The exact sequence of reactions, referred to as photosynthesis, is incompletely understood. Some plants, such as cereals and vegetables, are immediately utilised in human food, while others are consumed by ruminant animals, poultry and become available as meat. In the latter form, a new class of proteins, "animal proteins," occurs. These plant proteins are first broken down in the stomach and the amino-acids set free are carried to all parts of the body, where they are recombined, this time into proteins suitable for the animal concerned. Amino-acids not required in this arrangement are utilised by the body as fuel, providing an amount of energy equal to that obtained from carbohydrates. This is an extremely interesting vital process which will be dealt with at some length in a later article. It is important because the selective use of the body gives proteins very different biological values, a fact which has been taken into account when comparing the food values of wholemeal and white breads. In the sea, plankton (small organisms that drift at various depths in the ocean) is the starting point. These are consumed by shrimps, etc., which in turn, provide food for the fish. The fish eventually finds its way to the table.

### Protein from Yeasts

A third method, really a branch of the first, has assumed some importance since the war, and may have a big future in the production of protein of high caloric value by yeasts. A new strain of yeast, *Lipospora utilis*, has been obtained which is capable of growing at a prodigious rate in media containing only molasses, ammonium sulphate, phosphate and a plentiful supply of air. It has been reported recently that half a ton of this yeast is capable, under proper control, of producing several hundred tons in a matter of hours. Compared with the rate of growth of ca-

The yeast, when dried, contains over 50 per cent. of high-class, palatable protein. Palatability is an important consideration. At present, production is confined to the West Indies, where molasses is readily available, but with a world protein shortage so evidently inevitable, it seems probable that a far wider field will be open for this organism.

#### Bean Flour

Bean flour is another high-protein product that has been used during the war to alleviate shortages. The soya bean is an Asiatic plant that is able to fix nitrogen from the atmosphere owing to the presence of symbiotic bacteria on the roots. Cultivation has been successfully accomplished in Germany and America, but under conditions in this country are entirely against it. Although the bean has never been popular in this country, modern methods of manufacture have succeeded in eliminating much of its objectionable flavour. Today, in any event, much is consumed by the public without their being aware of it—for example, when it is incorporated into flour, confectionery and sweets.

The proteins utilised in the human diet are derived from one or other of the sources mentioned above. In normal circumstances the principal foods, such as meat, fish and its products, eggs, fish and cereals, provide both quantity and variety, the only deficiencies met with being those dictated about by economic conditions. Reports have been made about these, particularly in regard to some native populations of the Far East, whose standard of living is very low. Under war conditions in Great Britain, however, protein foods have first to become scarce, and a rationing scheme and scientific planning become immediately necessary. The planners have been fortunate in that two unrationed protein foods have been available during the whole war-time period, namely flour and potatoes. These have formed the reserve which has been drawn upon as other foods have become in short supply. What is not fortunate is that neither of these foods is conspicuous for supplying protein to the diet. Flour (National standard) contains about 12 per cent., while potatoes have only 1 per cent. The result has been that the population has maintained itself on a low protein-intake and an abnormally high carbohydrate-consumption. This fact has been clearly recognised, and definite steps have been taken to meet it, the most

important being the importing from America of dried milk, dried eggs, and tinned meats like the now famous Spam. While certain classes of the population, such as young children and expectant mothers, have had to be given priorities in accordance with their greater needs, the rest of the community appears to have managed reasonably well, though certain controversial issues have been and are being raised.

(From the Laboratories of the Endergen Food Co., Ltd.)

## PHARMACY IN THE U.S. ARMY

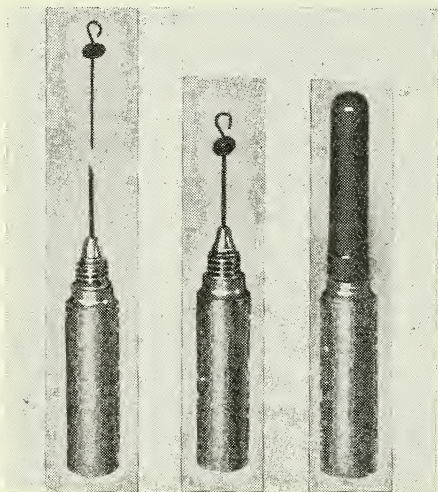
A "THUMBNAIL" history of pharmacy in the United States Army was circulated recently by Mr. Ralph Bienfang, who has been commissioned to write an official account of the subject. At the time of the Revolutionary War, medical supplies were brought by individual physicians who rallied to the defence of their country. Difficulty arose over replenishment, and a committee was appointed by Congress on September 14, 1775, "to devise ways and means for supplying the Continental army with medicines." The only change made by the committee, however, was to require all accounts to be audited by the President, before being paid by the Treasurer. So many complaints were made that on August 20, 1776, Congress resolved that a druggist should be appointed in Philadelphia, whose business it should be to receive and deliver all medicines, instruments and shop furniture for the benefit of the United States.

An increase in the size of the department took place in 1862, when Congress without debate authorised the Secretary of War to add, to the Medical Department of the army, medical storekeepers, not exceeding six in number, "who shall have the pay and emoluments of military storekeepers in the quartermaster's department, and who shall be skilled apothecaries or druggists, who shall give the bond and security required by existing laws for military storekeepers in the quartermaster's department, and who shall be stationed at such points as the necessities of the army may require." Candidates were required, among other things, to pass a satisfactory examination in pharmacy and materia medica; and to give proof that they possessed the requisite business qualifications for the position. On July 12, 1943, pharmacy was separated from medicine in Army administration by the passing by Congress of an Act creating a Pharmacy Corps.



## COLLAPSIBLE TUBES FOR PHARMACEUTICALS

BROADLY speaking, the collapsible tube can be described as a flexible cylinder of metal capable of being sealed so that its contents are protected from contact with air even while it is in use. The unique quality of airtightness whilst in use is adequate justification—indeed, a prime reason—for careful consideration of collapsible tubes as



Three views of a metal collapsible tube for hypodermic injections, with filling end unsealed, and without the final enamelled and printed finish.

potential packs for the great variety of new pharmaceutical products, as well as those already well known, that will doubtless be marketed in different parts of the world so soon as the various countries turn from war-time to peace-time production. Makers of pharmaceuticals are amongst the largest users of collapsible tubes, for such containers have proved to be most suitable not only for products which are not continuously self-sterile, but also for other preparations, of the type not usually stored in the home medicine chest, which it is necessary to keep in an airtight condition.

### Evolutionary Processes at Work

In the years immediately preceding the war, and perhaps even more during the war, collapsible tubes have passed through a metamorphosis which has brought them beyond the range of mere containers. Their functions had already been widened by the evolution of the nozzle with its

simple screw cap into an applicator specially designed for a medical purpose. There is, for example, the elongated metal or plastic adaptor for the injection of medicinal products into bodily orifices (e.g. pile ointments, nasal and vaginal jellies). A later advance was the hypodermic needle incorporated into the nozzle and protected by an elongated cap, used in conjunction with a 'tiny tube' containing single doses of morphine. During the war such single-use morphine tubes have been produced solely for use in the Service, primarily for airmen, commandos, tank crews for self use, and in field-dressing stations for general use. After the war has been used it is fastened to the casual battle-dress by its own needle, not only to denote the fact that an injection has been made, but also to indicate the size of the injection. Single-use hypodermic tubes are already in use in hospitals and coal-mines, and will prove equally valuable as part of the first-aid equipment for factories as soon as a reduction in Service demand makes it possible to swing over to peacetime production.

### Most Serviceable Pack for Pastes

In addition to being used as packs for the popular eye-lotions, both before and since the war, collapsible tubes have proved to be the most serviceable packs for a large number of proprietary brands of pastes and jellies, not all necessarily of the aseptic variety. The preparations in this class range from antiseptic ointments through petroleum jellies, analgesic ointments, and various antiseptic ointments to obstetric creams. Owing to wartime packaging restrictions (a list of permitted uses is given in British Standard 1049) most of these products have had, for the time being, to be packed in jars. This is served, however, by contrast, to emphasize the convenience and suitability of the collapsible tube.

In the United States, nozzleless or bullet-ended tubes were becoming popular for single doses of various powders and crystalline products, such as liver salts. They have proved especially beneficial for hygienic products, providing an excellent closure by the normal folding and crimping method employed in sealing the open end of the collapsible tube after filling. Although, before the war, tubes of this type were being taken up in Britain, they were not extensively used for pharmaceuticals.

means of the offset method of printing collapsible tubes, which has been developed to a high standard, it becomes easy to provide a clearly legible and non-detachable record on the tube of the formula, and directions for use. Emergency time discontinuance of the use of enamel made it necessary to develop new processes of printing direct upon metal. Resort to tubes "in battle-dress," while serving the needs of the industry under the exigencies of war, is, of course, of a purely temporary nature, and will, with certain exceptions, be discontinued by the trade

so soon as the labour position makes it possible to get back to the high-quality finishes characteristic of such packs before the war. Nevertheless, tribute must be paid to the amazing way in which printing technicians have adapted their methods to conform to the new conditions. In this and other respects, the collapsible-tube industry has demonstrated that it is as flexible as the products in which it specialises. During the early days of the war the greater part of the resources was placed at the Government's disposal for the manufacture of collapsible tubes for anti-gas ointment.

## PHARMACEUTICAL SOCIETY OF IRELAND

Council of the Pharmaceutical Society of Ireland met in Dublin on May 18. Mr. J. K. Whelehan (vice-president) in the chair. Other members of Council present were Messrs. P. C. Cahill, M. Power, J. O'Neill, P. Brooke-Kelly, T. C. Scott, Gleeson, W. G. Cunningham, P. A. Kelly, H. P. Corrigan, F. X. Meagher, and J. O'Sullivan. THE VICE-PRESIDENT said it was his sad duty to propose a vote of sympathy with their colleague Mr. P. F. Rath on the loss he had suffered in the death of his wife. The Council passed the motion, all members standing in silence.

### Registration and Membership

The following changes of address were notified: Mr. J. Browne, M.P.S.I., to 13 Lord Park, Sandymount, Dublin; and J. I. F. Storey, M.P.S.I., to 17 Brighton Road, Rathgar, Dublin. Preliminary registration was granted to the following, who submitted certificates: Misses C. Brady, A. P. Cahill, M. T. Diver, and N. M. Mahony; Messrs. T. G. Kenny, M. J. Conlon and J. Quigley. The Licence certificates of the following were signed and issued: Michael Francis Hayes, Bridget Leahy, Ethna Mary Teresa Kennedy, Catherine Margaret Mary Kirwan, Johanna Leahy, Teresa Mary Murray, Desmond Patrick O'Shea, and John Quinn. Miss M. He, Dr. D. C. S. McAllister, Mr. O. J. Callaghan, and Miss T. O'Connell were elected members of the Society. Mr. W. J. Dalton, Banagher, Offaly, and Miss A. C. Kingston, 6 O'Connell Street, Birr, were nominated for membership.

### Reports Received

The annual report of research work of the College of the Pharmaceutical Society Great Britain was received. The reports on the Law, Schools, House, Certificates and

Declarations Committees and education subcommittee were submitted and adopted. The examiners to the recent Licence examination reported that forty-three candidates had presented themselves, of whom nine women candidates and four men passed. For the Assistant examination fifty-five candidates sat, of which number eight women candidates and seven men passed. Three candidates who had entered for the Registered Druggist examination all failed.

THE REGISTRAR (Mr. J. J. Kerr) reported on the deaths of Miss Jane Bell, L.P.S.I., John Hall, L.P.S.I., and W. J. Cloberty, R.D. He went on to state that he had received from Hamilton, Long & Co., Ltd., Dublin (per Mr. T. J. Bourke), a number of interesting exhibits for the Society's pharmaceutical museum. The items included a large glass carboy, an ornate specic jar, mortars, syrup jars, a British Pharmacopoeia of 1864, a Post Office diary of 1840, a book of family medicines issued by Butler's Medical Hall, and an old work on materia medica. On the motion of THE PRESIDENT, seconded by MR. CAHILL, the following resolution was passed: "That the Council of the Pharmaceutical Society of Ireland expresses its grateful thanks to Messrs. Hamilton, Long & Co., for their generous donations to the Society's museum."

### Pharmacopoeial Alterations

MR. BROOKE-KELLY asked what was the position with regard to the additions and alterations they were going to suggest to the new British Pharmacopoeia, and THE REGISTRAR stated that replies had only just come in from some of those whose views had been asked. The matter would probably come up at the next Council meeting. At a meeting of the Benevolent Fund Committee held following the Council meeting grants were passed for payment.



## TRADE REPORT

Spot quotations for pharmaceutical chemicals, crude drugs and essential oils re the prices for wholesale quantities of standard quality. C.i.f. quotations do not include marine war risk insurance and other abnormal charges payable in the present emergency.

28 Essex Street, W.C.2, May 16

At the end of the first week of peace in Europe, the markets have hardly settled down to serious business. Some quarters report a steady but small consuming trade, but general conditions have been quiet. Considerable inquiries are being received for CRUDE DRUGS from continental sources but, as foreshadowed in these columns, such requests are impossible to meet, owing to lack of supplies and other difficulties. While the position will no doubt be rectified in due course, it is to be hoped that trade will not be irretrievably lost to exporters as a result of their temporary inability to supply the goods required. In PHARMACEUTICAL CHEMICALS little change has occurred. This section of the trade has been so well managed during the war that prices have remained at steady levels and no pronounced changes are expected in the immediate future.

### Crude Drugs

As already stated, business in these commodities has been quiet throughout the week, with few price changes to record. While supplies of ALOES are practically exhausted, it is stated that adequate stocks of Curaçao are available at the source but cannot be imported because of quota restrictions. CHALMOOGRA is a few pence dearer on the spot. Supplies of CHILLIES remain good, with the price steady at the figure quoted last week. Zanzibar CLOVES remains firm on spot. ERGOT continues in short supply. Some Brazilian MENTHOL is arriving, but the supplies are not large. West Indian NUTMEGS are in short supply, with some grades rather dearer. A few sales of rough-round RHUBARB are recorded at the highest price yet reached. SEEDS are quiet and without quotable change on the week. A plan for a return to private trading in BEESWAX is described on p. 510.

### Essential Oils

A review of the ESSENTIAL OILS market yields little information of interest on account of restricted activities resulting from lack of supplies. Oils outside the scope of the Control scheme are now in negligible supply, but high prices would be required for any small lots that may remain available in London,

### Pharmaceutical Chemicals

AMPHETAMINE.—Quoted at 150s. per

ASPIRIN.—Prices per lb., for lots of 1 cwt., are as follows (containers in brackets): 4s. 1d. (1-lb.); 3s. 11½d. (4-lb.); 3s. 7½d. (7-lb.); 3s. 10d. (14-lb.). Terms are 1 month.

BARIUM SULPHATE (x-ray).—Quoted at following rates per lb., for quantities of 1 cwt. (containers in brackets): 1s. 5½d. (1-lb.); 1s. 4d. (4-lb.); 1s. 3d. (7-lb.); 1s. 2½d. (14-lb.).

CALAMINE, B.P.C.—Prices are as follows: 7 lb., 1s. 8d. per lb.; 28 lb., 1s. 6d.

CODEINE.—Current prices per oz., for lots, are as follows: BASE.—½ oz., 55s. 3d.; 52s. 9d.; 2 oz., 51s. 3d.; 3 oz., 50s. 6d.; 50s. 3d. HYDROCHLORIDE.—½ oz., 50s.; 47s. 6d.; 2 oz., 46s.; 3 oz., 45s. 3d.; 45s. PHOSPHATE.—½ oz., 43s. 9d.; 41s. 3d.; 2 oz., 39s. 9d.; 3 oz., 39s.; 38s. 9d.

DEXTROSE.—Current prices per lb., for lots, are as follows: BASE.—½ oz., 55s. 3d.; 52s. 9d.; 2 oz., 51s. 3d.; 3 oz., 50s. 6d.; 50s. 3d. HYDROCHLORIDE.—½ oz., 50s.; 47s. 6d.; 2 oz., 46s.; 3 oz., 45s. 3d.; 45s. PHOSPHATE.—½ oz., 43s. 9d.; 41s. 3d.; 2 oz., 39s. 9d.; 3 oz., 39s.; 38s. 9d.

ETHYLMORPHINE.—Small quantities quoted per oz. by makers as follows: ½ oz., 61s. 6d.; 1 oz., 59s.; 2 oz., 57s. 3d.; 3 oz., 56s. 9d.; 4 oz., 56s. 6d. HYDROCHLORIDE.—½ oz., 53s.; 1 oz., 50s. 6d.; 2 oz., 49s. 3d.; 4 oz., 48s. 3d.

MAGNESIUM CARBONATE, LIGHT.—Home market prices per lb., in quantities of 28 lb.—1 cwt., are as follows (containers in brackets): 1s. 3½d. (1-lb.); 1s. 2d. (4-lb.); 1s. 1d. (6-lb.); 1s. 0½d. (14-lb.); 1s. 0d. (28-lb.). Prices net one month.

MAGNESIUM TRISILICATE.—Home market prices per lb., for quantities of 28 lb.—1 cwt., are as follows (containers in brackets): 1-lb.); 3s. 7½d. (4-lb.); 3s. 6½d. (7-lb.); (14-lb.); 3s. 5½d. (28-lb.). Prices net one month.

PHENOLPHTHALEIN.—Current rates as follows: Less than 7 lb., 4s. 8d. per lb.; 4s. 7d.; 14 lb., 4s. 6d.; 28 lb., 4s. 5d.; 4s. 4d.

SANTONIN.—Prices per kilo are as follows (price per oz. in brackets): 25 kilo (23s. 10d.); 10 kilos, £43 (24s. 5d.); 5 kilos, £44 (24s. 11d.); 2-4 kilos, £45 (25s. 6d.); 1 kilo, £46 (26s. 1d.); 500 gm., £47 (26s. 11d.); 250 gm., £48 (27s. 3d.); 100 gm., £49 (27s. 11d.); smaller lots, £50 (28s. 4d.).

VANILLIN.—The agreed prices are unchanged as follows: 5 cwt., 21s. per lb.; 1 cwt., 21s. 5d.; 56 lb., 21s. 6d.; less than 56 lb., 21s. 9d.



## Crude Drugs

**COES.**—No stocks of Cape are available, but may be possible to obtain limited quantities from Paraíba. There appear to be adequate supplies of the latter at source, but owing to a restrictions these cannot be shipped.

**ANTIMONY.**—Price of English minimum 99 per cent. regulus is steady at £112 10s. per ton, refined; crude, 70 per cent., for home use, £90.

**PECA NUTS.**—Dealers' quotations are steady at 2s. per cwt. for wormy Ceylon.

**ALSAMS.**—The supply position and prices unchanged. *Peru* is quoted at 8s. per lb. *Canada* at 11s. 6d. *Tolu* and *Copaiba* are obtainable.

**ELLADONNA.**—Some Indian leaf testing per cent. may be obtained on spot at 5s. 6d. per lb.; the only root quoted is some Indian at 0.25 per cent. at 2s. 3d. per lb.

**ENZONIN.**—Many buyers would like to obtain article but supplies are exhausted and not likely to be replenished for a considerable time.

**SMUTH.**—Metal is in steady request at the changed price of 6s. 3d. per lb. for minimum 99 per cent. lots.

**RDAMOMS.**—Aleppy greens may be obtained on spot at 5s. 6d. per lb., and Aleppy at 6s. 6d.; split seed, 5s. 6d.

**LAULMOOGRA.**—Spot price of *Hydnocarpus*, in cases, has advanced to 2s. per lb.

**ILLIES.**—Supplies are good with the price rising steady at 100s. per cwt., spot.

**OVES.**—Sellers of Zanzibar on spot quote 4½d. per lb. No other varieties are available.

**CHINEAL.**—Silvers, afloat, 6s. per lb., refined.

**COA BUTTER.**—Price is fixed at 1s. 5½d. per lb., ex factory or warehouse, except for butter made under Ministry of Food licence.

**LOCYNTH.**—Fair white pulp is offered on at 2s. 10½d. per lb.

**ITALIS LEAVES.**—Portuguese leaves are offered on spot at 140s. per cwt., and English at 6d. per lb.

**EGOT.**—Continues in short supply. Small quantities of good-quality would fetch 6s. 6d. per lb.

**UM ACACIA.**—Spot quotations for Kordofan and other sorts are steady at 75s. per cwt.; cleaned, 175s.; Talha, cleaned, 30s. per cwt., refined.

**ENBANE.**—Indian, 250s. per cwt.; some testing material may be had at 60s. per cwt.; Russian, 350s.; Egyptian (*muticus*), 75s.

**LAP.**—Some material testing 10.1 per cent. may be obtained on spot at 3s. 6d. per lb.

**AMALA.**—Between 2s. 6d. and 2s. 9d. per lb. should be the spot price of material yielding 6 per cent. ash.

**QUORICE ROOT.**—Turkish, to come forward, per cwt., landed, for pharmaceutical purposes only.

**MENTHOL.**—Brazilian continues to come along slowly at 82s. 6d. per lb.

**MERCURY.**—Official quotations range from £68 10s. to £69 15s. per flask, according to conditions and quality, with higher prices for smaller lots and re-distilled grades.

**MYRRH.**—Good Aden sorts would be worth £20 per cwt.

**NUTMEGS.**—West Indian are in short supply. Prices are as follows: Sound unassorted, spot, 2s. 10d. per lb.; wormy and broken, 2s. 3d.

**NUX VOMICA.**—Cochin, spot, 37s. 6d. to 40s. per cwt.; shipment, 31s. to 32s., c.i.f.

**PEPPER.**—Maximum prices for whole pepper, not picked over or cleaned, on sale to processors, 1s. 4d. per lb. for white and 1s. per lb. for black.

**PIMENTO.**—Sellers on spot at 1s. 3½d. per lb.

**QUASSIA.**—Steady on spot at 37s. 6d. to 40s. per cwt., according to quantity.

**RHUBARB.**—Odd cases of rough-round are reported to have been sold at 20s. per lb. It may be possible to obtain some flat high-dried at 21s.

**SEEDS.**—Quiet and unchanged. **CORIAN- DER.**—Practically no supplies available; price nominal at 65s. per cwt. **CUMIN.**—Maltese, spot, 110s.; buyers; Indian, 110s.; buyers. **DILL.**—London, 85s.; Liverpool, 80s. **FENNEL.**—Higher at 100s., business done and sellers. **FENUGREEK.**—London, 75s.; Liverpool, 67s. **MUSTARD.**—Controlled prices are unchanged.

**SENNA.**—Alexandrian medium pods are wanted but supplies are small; Tinnevely, manufacturing grade, 6d. to 6½d.; hand-picked, 8½d. to 1s.; broken Alexandrian leaves, 1s. 3d. to 1s. 4d.; siftings, 1s. 2d.; Tinnevely, No. 1, 9d. to 10½d.; No. 2, 7d. to 7½d.; No. 3, 5½d. to 6d.

**SQUILL.**—Indian bulb may be had on spot at from 45s. to 60s. per cwt., according to quality.

**STRAMONIUM LEAVES.**—Dealers quote Indian leaves on spot at 80s. per cwt.

**STROPHANTHUS SEED.**—100 per cent. Kombé seed, unchanged at 7s. to 7s. 6d. per lb., as to quantity.

**TRAGACANTH.**—Medium grades are quoted as follows: No. 1, white, £130 per cwt.; No. 2, white, £115; No. 3, white, £100; No. 4, white, £85; pale leaf, £60; amber leaf, £50; dark amber, £40; brown leaf, £30; red-and-brown leaf, £25; red leaf, from £20; hoggy, £12 to £15.

**VALERIAN ROOT.**—Powdered Indian root is available at 120s. per cwt.

**WAXES.**—**BEES'.**—See Editorial article, p. 510. **CARNAUBA.**—Fatty grey, 525s. per cwt., ex store, in minimum one-bag lots; shipment, 425s.; Primeira, 600s. per cwt., ex store; shipment, 495s., c.i.f.; medium yellow, 575s.; shipment, 475s., c.i.f.; chalky grey, 520s.; shipment, 400s., c.i.f. (c.i.f. prices include ½ per cent. W.R.I.) **CANDELILLA.**—Under 1 ton, 225s. per cwt.; 1–5 tons, 221s. 6d.; 5 tons and over, 220s., ex store. **OURICURI.**—Spot, 305s. to 330s. per cwt.; shipment, 260s., c.i.f.

## Essential and Expressed Oils

**ANISE (STAR).**—About 160s. per lb. has been mentioned as the current price for smallish quantities on spot.

**CASTOR.**—Official prices are unchanged as follows: "Firsts," £82 per ton; "seconds," £80, both naked ex works, in bulk lots.

**CITRONELLA.**—Ceylon, spot, approximately 20s. per lb.; Java, about 27s. 6d., if available.

**CLOVE.**—English distillers' prices are steady at from 12s. 6d. to 13s. per lb., according to quantity.

**COTTONSEED.**—Controlled prices for bulk supplies are as follows: Crude, £52 2s. 6d.; washed, £55 5s.; refined edible, £57; refined deodorised, £58 per ton; all varieties quoted naked ex works.

**EUCALYPTUS.**—Approximately 8s. 6d. per lb. would be wanted for any available supplies of 70 to 75 per cent.

**NUMEG.**—English distillers quote at 45s. per lb.

**OLIVE (EDIBLE).**—The price charged to the wholesaler by the importer is 25s. 9d. per gallon, ex store. Prices charged by wholesalers to retailers are agreed by the Ministry of Food as follows: 33s. 6d. per gallon, in 1-gallon loan cans; 34s. 3d. per gallon, in  $\frac{1}{2}$ -gallon loan cans; 35s. per gallon, in 1-quart loan cans; 36s. per gallon, in 1-pint loan cans.

**RAPESEED.**—Bulk supplies are officially priced at £88 per ton, naked ex works.

### Essential Oils Control

THE following is a schedule of prices to users in original packages for oils imported by the Ministry of Food:—

Basil .. ..	25s. 8d., plus duty, 2s. 3d.
Bergamot .. ..	23s. 10½d.
Camphor .. ..	2s.
Caraway .. ..	20s. 9½d., plus duty, 1s. 10d.
Cedarwood .. ..	3s. 8½d., plus duty, 3½d.
Clary sage .. ..	129s. 1½d., plus duty, 11s. 6d.
Coriander .. ..	128s. 10d., plus duty, 11s. 6d.
Fennel .. ..	11s. 6d., plus duty, 1s.
Lemon, cold-pressed, or Sicilian .. ..	17s. 4½d.
Lemon, distilled .. ..	11s. 9d.
Lime .. ..	47s.
Nutmeg .. ..	22s. 8d., plus duty, 2s.
Orange, bitter .. ..	18s. 6½d., plus duty, 1s. 7½d.
Orange, West African .. ..	10s. 3d., plus duty, 10½d.
Peppermint .. ..	37s.
Tangerine .. ..	33s.
Vetivert .. ..	38s. 4d., plus duty, 3s. 5d.
Wormseed .. ..	15s. 3½d.
Ylang-ylang .. ..	15s. 6½d., plus duty, 1s. 4d.

## COMMERCIAL NOTES

**U.S. Industrial Alcohol.**—The United States War Production Board reported on January 17 that requirements for industrial alcohol in 1945 had been increased over previous estimates. The alcohol needs of the synthetic rubber programme, which fell during the autumn of 1944, had been stepped up again, because of the great demands for rubber and aviation petrol.

**U.S. Soya Bean Stocks.**—The United States Department of Agriculture states that farm stocks of soya bean on January 1, 1945, were estimated at 42,593,000 bushels (about 22 per cent. of the 1944 production). Autumn weather was unusually favourable for both maturing and harvesting, which was nearly completed by November. Movement to market was exceptionally rapid, and most producers sold their beans as quickly as facilities permitted.

**U.S. Synthetic Rubber.**—The United States Rubber Reserve Co.'s production of synthetic rubber was stated on January 1 to be approximately 1,000,000 long tons; 737,000 tons of which was manufactured in 1944. In addition, private industry produced 26,000 long tons in 1944. United States synthetic rubber plants are estimated to be capable of producing at least 1,000,000 long tons annually, if necessary. Forty-seven chemical, petroleum, rubber and industrial companies operated the plants for the Rubber Reserve Co.

**U.S. Ammonium Nitrate.**—In the spring of 1943, solid ammonium nitrate from a number of ordnance and industrial plants in the United States and Canada became available for use as fertiliser. The material first produced proved unsatisfactory, owing to a marked tendency to cake and to rapid absorption of moisture from the air under humid conditions. An investigation was undertaken with the aim of producing a satisfactory product, and the most effective "conditioning" agents were found to be various forms of kieselguhr, kaolin, plaster of Paris and tricalcium phosphate. The most effective materials for decreasing the rate of moisture absorption were mixtures of paraffin with asphalt, or similar mixtures.

**CLOSED ON SATURDAYS.**—Advertisers and subscribers are reminded that owing to war conditions the Head Office of THE CHEMIST AND DRUGGIST, 28 Essex Street, London, W.C.2, is closed on Saturdays until further notice. Urgent instructions relating to advertising and subscriptions should be sent to the C. & D., 17 Argyle Street, Bath, Somerset.

## TRADE MARKS

(From "The Trade Marks Journal,"  
April 25)

H. MARSHALL (fascimile signature); for food preservatives (1); infants' and invalids' foods, dietetic foods, pharmaceutical preparations (excluding germicides, etc.) (5); malted milk, vegetable and meat extracts, milk products, etc. (29); chocolate beverages made of malt, etc. (30). By Marshall's Food Products, Ltd., 41-43 Dockhead, Tower Bridge, London, S.E.1. 627,027, 628,166-68, (all Associated).

Ovosol"; for laundry preparations, soaps (3). By Kay & Kay, Ltd., 30-31 Richardson Street, London, S.E.1. 631,199.

SPLENDOR"; for non-medicated toilet preparations for the feet (3). By Splendor, Ltd., 5 Beastmarket Hill, Nottingham. 631,596 (Associated).

SEM"; for laundry preparations (3). By O. M. Seman, 87A Thurleigh Road, London, S.W.12. B632,389.

MELOSAN"; for dietetic foods and infants' and invalids' foods (pharmaceutical); "MELOTON"; for vaccine in tablet form for immunisation against colds (5). By Allied Laboratories, Ltd., 140 Park Lane, London, W.1. 630,181-82 (both Associated).

BORAMINE"; for pharmaceutical preparations and substances, all being amines (5). By Ashe Laboratories, Ltd., 120-22 Victoria Street, London, S.W.1. 631,437.

LENILAX"; for laxative preparations (5). By Smith & Co., 132 Borough, London, S.E.1. B631,544.

EBB"; for all goods excluding medicated wines (5). By Trinity Laboratories, Ltd., Brook House, Old Mill Street, Blackburn. 632,346.

OXYZYASE"; for pharmaceutical preparations and antiseptics, all for use in the manufacture of dental fixative powders (5). By Per-De-Co., Ltd., Bear Lane, Farnham, Surrey. 632,718.

PARA-NAP"; for deodorants, pharmaceutical and sanitary substances, and insecticides (5). By Bank Chemical Co., Ltd., Cargo Fleet Ironworks, South Bank Road, Middlesbrough. B632,955.

MADROXSIL"; for medicinal preparations (5). By Dr. I. J. Eppel, 45 Portsmouth Road, Surbiton, Surrey. 632,970.

WIMLOS"; for preparations for the treatment of dermatitis (5). By Wimsol, Ltd., Atlas Mills, Grace Street, Keighley, Yorks. 633,185 (Associated).

GYNFORMONE"; for pharmaceutical preparations of hormones for treatment of women's ailments (5). By Wallace (Pharmaceutical Products), Ltd., 138-40 Drummond Street, London, N.W.1. 633,314.

DEVICE OF A HOUSE, with words "A Lees House" disclaimed; for non-alcoholic drinks (32), all goods (33). By J. W. Lees & Co. (Brewers), Ltd., Greengate Brewery, Lees Street, Middleton Junction, nr. Manchester. 631,798-99 (both Associated).

"BRADCON," "BRADRUN" and "BRADMATIC"; for optical, photographic and cinematograph apparatus, etc. (9). By L. C. Bradley, 20 Church Road, Perry Barr, Birmingham, 20. 633,171-73 (all Associated).

"POSTAR" and "MINTAR"; for lenses (9). By The Houghton-Butcher Manufacturing Co., Ltd., Ensign Works, Fulbourne Road, Walthamstow, London, E.17. 633,855-56.

"DENTEX"; for dental instruments and apparatus; artificial teeth (10). By Southampton Plastics Co., Redhill Close, Bassett, Southampton. B631,260.

Astrological signs in oval device and words "Planet Brand"; for printed publications relating to chemical and pharmaceutical products (16). By May & Baker, Ltd., Dagenham, Essex. B626,293 (Associated).

"VEGEO" and "SALU"; for non-alcoholic drinks prepared from vegetable and fruit juices (32). By J. Farrow & Co., Ltd., Carlton Mills, Peterborough. 632,369-70.

## COMING EVENTS

Sunday, May 20

CATHOLIC PHARMACEUTICAL GUILD, St. Mary's Church, Harborne, Birmingham, at 10.30 a.m. High Mass, preceding annual meetings, which will be concluded the following day (Whit Monday) at St. Gabriel's Retreat, Harborne.

Thursday, May 24

CARDIFF BRANCH, CHEMICAL SOCIETY, University College, Cardiff, at 7 p.m. Professor J. D. Bernal, F.R.S., on "The Past and Future of Crystal Chemistry."

BIRKENHEAD AND WIRRAL PHARMACISTS' ASSOCIATION. Visit to the Pricing Bureau, Princes Road, Liverpool. Meet at Woodside Ferry to catch 2.30 p.m. boat to Liverpool.

Friday, May 25

SHEFFIELD BRANCH, CHEMICAL SOCIETY, University, Western Bank, Sheffield, at 6 p.m. Mr. R. P. Bell, F.R.S., on "The Place of the Resonance Concept in Chemistry."

Sunday, May 27

MANCHESTER PHARMACEUTICAL ASSOCIATION. Ramble to Dovedale. Meet Central Station, 8.45 a.m. Book Thorpe Cloud return.

GLASGOW AND SOUTH-WESTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, Central Halls, 25 Bath Street, Glasgow, at 2.30 p.m. Discussion on memorandum by Joint Committee on a National Pharmaceutical Service.

**A Good Example.**—During 1944, the Army in the London district salvaged 2,926 tons of waste paper, valued at £19,970, together with 469 tons of empty packages, worth £8,113.



## CORRESPONDENCE

### North British Executive Election

SIR,—Nomination papers are now issued for the above. Scottish chemists are at a serious disadvantage in that they have no means of knowing the candidates or their suitability for the position. It would not be far wrong to say that, in the majority of cases, the candidates are merely names to the electors. It is altogether wrong that the electors should have to vote under such circumstances. Is it not possible to have the views and experience of the candidates, as in the Council election? As the Executive is at present constituted, five members have no connexion with retail pharmacy, three are retired (two over eighty years), one an official and a wholesaler, and another member approaching four-score years. The position opens the way for any opportunist, by the issue of a specious circular with grandiose headings, and who may be without either the knowledge or experience of pharmaceutical affairs, to gain a seat. Pharmacy cannot progress until we are represented by men who are capable and have the interests of the craft at heart.

Yours faithfully,

SCOTIA.

### Membership of the P.A.T.A.

SIR,—As one of the "defaulters" from the payment of Proprietary Articles Trade Association subscriptions, I feel that I must vindicate the cause of the few who have thought seriously about the attitude of the P.A.T.A. towards pharmacists. As I see the report of the P.A.T.A. annual meeting (*C. & D.*, April 28, p. 422), the Association has merely put off the issue by promising a few minor alterations in the method of advertising, whilst it is left to the manufacturers to please themselves whether they will restrict sales in any way to the advantage of pharmacy. The present system of distribution on which manufacturers work regards the highest number of distribution points as the only satisfactory policy, and I contend that it is unfair that some 14,000 pharmacies should pay the whole of the retail subscriptions to the P.A.T.A. (nearly £4,000) to protect at least ten times that number of grocers, stores and corner shops, and make it profitable for these to stock the popular makes of "patent" medicines. The protection given by the P.A.T.A. is mainly for the manufacturers, for, without it, "cutting" would start again, unqualified traders would refuse to stock a line without

a good margin of profit, and chemists would start pushing their own specialities against undercut proprietaries (and, I am convinced, in the long run do better for it). Some manufacturers have said that they will sell more medicines to outside traders than to pharmacists, and so cannot afford to join the Chemists' Friends scheme, yet offer payments to the P.A.T.A. to keep up the prices, so that it is a "gift from the Gods" for the grocer, etc., to sell proprietary medicines. Wisely, he confines his sales to popular lines, and is not criticised by the public for not stocking them all.

Yours faithfully,

Blackpool.

P. VARLEY.

### "British" Wine Concoctions

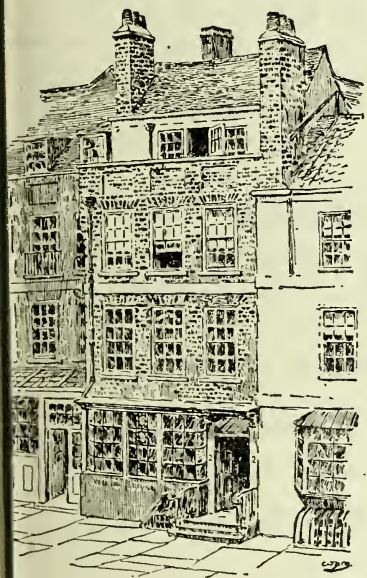
SIR,—My attention has been drawn to the fact that my name and extracts from letters which I have contributed to the "Wine and Spirit Trade Review," on the subject of British wines, have been quoted for the defendants in a number of recent prosecutions under the Food and Drug Act, in respect of so-called British sherry and British port-type wines. Attempts have been made, by taking certain words out of mine out of their context, to prove that I lend some support to the view that it is permissible and customary to apply the designations "British sherry" or "British port-type" wine to concoctions which are made from cider or perry base with colouring and flavouring added, and of an alcoholic strength very much lower than the accepted British Sherry or British port-type strengths. If my letters are read in full it is abundantly clear that I lend no support whatsoever to such views, and regard them as obnoxious and of the greatest harm to the British wine trade, and to the goodwill of old-established concerns such as my own. The practice of those who put such products before the public. In order, however, that there may be no future misrepresentation of my views on the matter, particularly in the courts, I wish to make it known as widely as possible, through the trade Press, that I regard it as entirely false and a misrepresentation to apply the term "British sherry," "British port-type," or "British ruby" wine to a liquid made from a cider or perry base with flavouring and/or colouring added.

Yours faithfully,

GEORGE GORDON WATTS  
Managing director,  
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100 MICROGRAMSVITAMIN B<sub>6</sub> (Pyridoxin)VITAMIN B<sub>H</sub> (Biotin)VITAMIN B<sub>2</sub> (Riboflavine)

5 MICROGR

5 MICROGR

5 MICROGR

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PROVITAMIN A (Stabilised B-carotene powder)

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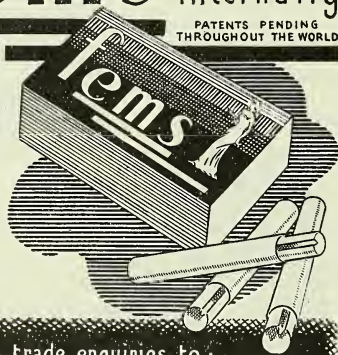


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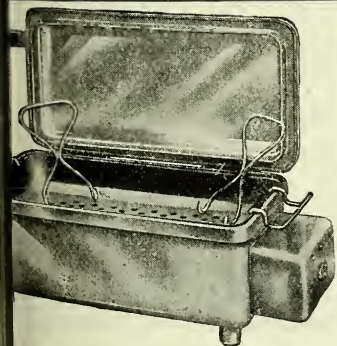
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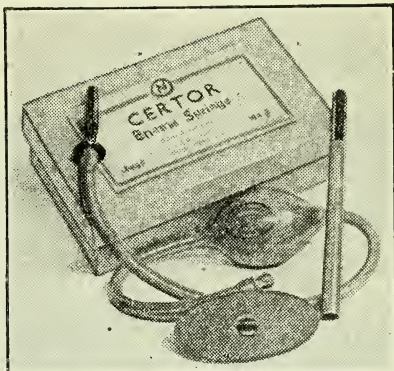
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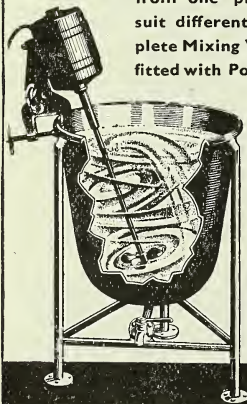
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# The CHEMIST AND DRUGGIST SUPPLEMENT

28 ESSEX STREET, LONDON, W.C.2

MAY 19  
1945

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**CHEMISTS'** sundries wholesalers, well introduced, have vacancies for Travellers in Yorkshire, Lancashire and Cornwall. Apply 608/844, C. & D. London Office.

**COMPANY** manufacturing fine and pharmaceutical chemicals invite applications for position of Export Manager, to work in the London area. Applicants must have thorough knowledge of foreign markets, shipping procedure, Customs Regulations, etc., in relation to chemical trade. Fluent French and Spanish essential; additional languages an advantage. Reply giving fullest particulars regarding previous experience, references, etc., 608/851, C. & D. London Office.

**FOREMAN**, exempt, for Medicinal Tablet Compressing Dept., required by well-known old-established firm on South Coast. Good opportunity and prospects for experienced man, who need not necessarily have been in charge of department. Excellent house available. Removal expenses paid. All communications will be in strict confidence and our staff know we are seeking to fill this vacancy caused by death after thirty years' service. State age and details of experience to Box S.D., c/o Street's, 110 Old Broad Street, E.C.2.

**LONDON** manufacturers and distribute chemists' sundries have a vacancy for energetic employee, owner of a car, to be their representative. State age, experience and particulars. 608/841, C. & D. London Office.

**MALE** Assistants required for large Wholesale Distributors. Knowledge of Sundry and Chemists' lines requisite. Permanency. Immediate or early release from Services. State age and experience. 606/778, C. & D. London Office.

**MAN** or woman with some knowledge of industry required to overlook manufacture of factory in N.W. London, 5-day week; not essential work. Write Box 7112, A.K. Advertising Shaftesbury Avenue, W.C.2.

**MANUFACTURING** Chemists, marketing proprieties with post-war prospects, first-class Representatives for (1) Lancashire, Cheshire, (2) Southern Counties, and (3) No. Ireland; salary, commission and expenses to good agents not carrying competitive lines. Particulars in first letter. 607/802, C. & D. London Office.

**MEDICAL** Representatives. Well-known Manufacturing Chemists require the services of full-time representatives, well experienced in medical propaganda to cover the following districts: (a) London and the South Coast; (b) North and South Wales; (c) North of England. Q.M.P.S. preferred. No direct sale of proprietary education and propaganda only involved. Giving full details of qualifications, experience and wages expected to Box 564A, Smith's, 101 Fleet Street, E.C.4.

**OLD-ESTABLISHED** makers of Perfume and Cosmetics require really first-class Compounds must be capable of creating new and in existing blends. Remuneration for right man almost unlimited. Please give fullest possible of past experience to Box No. F.G.A., 4-7 St. Court, Fleet Street, E.C.4.

**PHARMACISTS** required by the Wellcome Foundation, Ltd., for work in Production Departments at the Wellcome Chemical Works. Applicants should have good organising ability, preferably some experience of large-scale pharmaceutical manufacture. Salaries will be in accordance with qualifications and experience. The position permanent and pensionable. Applications, stating age, experience and indicating salary required, should be addressed to the Works Manager, Wellcome Chemical Works, Dartford.

**PHARMACIST** required for laboratory of East wholesale and manufacturing of knowledge of galenic manufacture useful, essential; full particulars, age, experience, etc. 608/837, C. & D. London Office.

**PILL MAKER** required for Manufacturing Chemists, N.W. London. Permanent and good opportunity, should be over military age or war service. State experience and wages required. 594/359, C. & D. London Office.

**PROGRESSIVE** position, ethical house. Medical Propagandist (male or female). Selling experience, to call on doctors, hospital chemists: (a) Scotland, (b) Yorkshire, (c) Lancashire, (d) Midlands. Must reside on territory. Must be in services considered for engagement with Full details experience, age, salary, etc. to 608/851, C. & D. London Office.

**REPRESENTATIVE**, with sound commercial background, amongst chemists and stores in London required by manufacturer of proprietary products. Excellent post-war prospects for right man. State age, experience, and liability to military National Service, etc., 607/803, C. & D. London Office.

**REPRESENTATIVES** required on commission basis to handle our well-known "Air" range of specialities, including emulsifiers, cosmetics, perfumes, hair rinse and leg-tan powder. State full particulars, including area covered and other houses represented. Ambresil, Ltd., Parade, Harrogate.



CEIVING and Dispatch Foreman required for wholesale chemists' warehouse. Apply, giving particulars of experience, and salary required to nt Chemists, Ltd., 70 Vauxhall Bridge Road, London, W.2.

PRESENTATIVES wanted for the following areas: London above the River, South Wales Western Counties, Lancashire, and Scotland, leading proprietary company; applicants must first-class experience of calling upon the trade ble to drive a car; applications, including those members of the Forces, should state age, ex- perience, companies served (in confidence), and when ble to take up duties; salary expected must be stated. Replies to 607/826, C. & D. London Office.

PRESENTATIVES required on commission basis, having first-class connexion with whole- sale and retail chemists, drug stores, etc., to sell ending lines of Moth and Fly Killers. Very tively packed. Write stating area covered, etc. 47, C. & D. London Office.

PRESENTATIVES required to sell excellent household products in Kent, Surrey, Sussex, and Norfolk. Good commission offered. Write B/388, C. & D. London Office.

QUIRED, several Qualified Men as soon as possible, for well-known Manufacturing House lands. Applications from men still in Services also be considered. State age, experience and particulars. 606/779, C. & D. London Office.

LET Maker required at once; must be thoroughly experienced and able to take full of plant, mixing, compressing, and care of ery; one who can sugar-coat preferred, but sential. 606/763, C. & D. London Office.

Pharmaceuticals Division of Imperial Chem- ical Industries, Ltd., has vacancies in the Sales ment for salaried Representatives to main- tain contact with hospitals, public health authorities, ale and retail pharmaceutical chemists. Ap- plicants, with full particulars of experience and n in relation to Armed Forces Act, to the Department, Hexagon House, Blackley, Man- chester, 9.

UALIFIED Assistant wanted for Manufac- turing Pharmaceutical Laboratory. State age, experience to 608/833, C. & D. London Office.

STED Full-time Representative, having good connexion London Stores and Co-ops, to push e lines. Apply 603/667, C. & D. London Office.

## WHOLESALE (COLONIAL)

ISH West Africa. Two young Pharmacists with good knowledge of Therapeutics required to propagate and some Executive office work by own British firm manufacturing Chemicals and Medical Specialities. Applicants should be free ced to West Africa as soon as the necessary ties can be completed. Full details will be d on application to 607/814, C. & D. London Office.

Nyasaland Research & Development Co., Ltd., invites applications from Pharmacologists, according to qualifications, experience and s, for scientific work. Applications to be ced to Dr. M. Nierenstein, 2 Rylestone Grove, London, 9.

## SITUATIONS WANTED

2 or 18 words or less, 1d. for every additional word.

### WHOLESALE

VE Traveller, sound chemist connexion W. Wales and Welsh area, seeks Representation of sole concern on commission basis. 608/836, C. & D. London Office.

EXPERIENCED Sales Representative with exten- sive connexion among Wholesale and Retail ers, Hairdressers, Co-ops, Stores, etc., through- out the country, wishes to contact firm of repute. Write to 607/820, C. & D. London Office.

FIRST-CLASS Traveller, own car, calling on all chemists, co-ops., and multiple stores in Lanca- shire, Cheshire, and Wales, requires one additional line; commission basis. 607/818, C. & D. London Office.

GENTLEMAN, aged 44, with 23 years' experience of the proprietary medicine business, desires change and would consider position as Sales Director or Sales Manager. 608/835, C. & D. London Office.

REPRESENTATIVE calling on chemists and hair- dressers in Eastern and Home Counties, North of the Thames, requires additional lines; part ex- penses and commission. 608/829, C. & D. London Office.

REPRESENTATIVE with exceptional connexion among Stores, Hairdressers, Chemists: London, Home Counties, requires additional agency or proposition. Own car. 608/850, C. & D. London Office.

REPRESENTATIVE, with established connexion in North-East Counties with wholesale and retail chemists, departmental stores and co-op. societies, requires additional lines on commission basis. Write 607/821, C. & D. London Office.

SCOTLAND. An established Agent, with sound connexion among retail chemists and stores, wishes to contact a progressive firm, with a view to post-war business. 606/784, C. & D. London Office.

TRAVELLER wants position; large clientele in London and all parts of England; creams, lipsticks, brilliantine, eyebrow pencils, rouge, are main lines. Can also place bakelite goods. Wholesale or retail; commission basis only. A few export orders can be arranged. 608/838, C. & D. London Office.

YORKSHIRE. Representative, with first-class connexion all chemists and stores throughout the county, would represent firm marketing high- grade and well-known products; own car. 608/827, C. & D. London Office.

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£500 Freehold. Small factory (former garage), licensed for industrial alcohol and for the manufacture of disinfectants, deodorants, liquid shampoo, liquid soap, also osonators, etc., approved by the Customs formulae in the Clapham area, London; with a small amount of chemicals and products; small space of ground, 125 ft. by 10 ft., partly covered and cemented; suitable for a manu- facturing chemist or a person to become a manu- facturer. Write, in the first instance, to BM/BRNV, London, W.C.1.

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12/6 for 60 words or less, 1/- each additional 10 words or less

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## APPOINTMENTS

### COUNTY BOROUGH OF SOUTHEND-ON-SEA SOUTHEAST MUNICIPAL HOSPITAL, ROCHFORD, ESSEX

The Health Committee of the Council invite applications for the post of Non-resident ASSISTANT PHARMACIST at the above Hospital. Candidates should hold one of the registrable qualifications of the Pharmaceutical Society. The salary is at the rate of £250 per annum, rising by increments of £10 to a maximum of £300 plus cost of living bonus, at present £59 16s. per annum for males and £48 2s. for females. The provisions of the Local Government and Other Officers' Superannuation Act, 1937, will apply, and the person appointed must satisfy the Council's Medical Examiner.

Application forms, which can be obtained from the Medical Superintendent of the Hospital, must be completed and returned to him as soon as possible.

H. J. WORWOOD,  
Town Clerk.

May, 1945.

### CONNAUGHT HOSPITAL, E.17

Assistant to Pharmacist required immediately. Hospital experience preferred. Salary according to experience. Applications, stating age, etc., and copies of two recent testimonials, to be sent to the undersigned (male candidates should state their position with regard to military service).

R. HALTON HARRISON,  
General Secretary.

### MANCHESTER

The Publishing Department of The Chemist and Druggist requires a Pharmacist for its Manchester Office. Applications are invited from Pharmacists (either in Civil Life or the Services) of good appearance and address, who have a sound knowledge of the Wholesale and Retail Drug Trade, and who are prepared to reside in the Manchester area. A knowledge of the Lancashire and Yorkshire territory will be advantageous. Applications, which must be in writing, should give the fullest information as to qualifications, business experience, salary expected, etc., and be addressed to The Staff Director, Morgan Brothers (Publishers), Ltd., 28 Essex Street, Strand, London, W.C.2.

### NORTH STAFFORDSHIRE ROYAL INFIRMARY STOKE-ON-TRENT

Applications are invited from Women Pharmacists with Hospital experience for the post of Junior Assistant Pharmacist. Salary according to the B.H.A. scale. Federated superannuation scheme in force. Applications with copies of testimonials to be sent to the Secretary and House Governor.

## AGENCIES

7/6 for 36 words or less, 2d. for every additional word.

**A**GENTS wishing to carry additional lines of Bottles and Jars kindly write stating territory covered to 608/842, C. & D. London Office.

**E**IRE. Chemist is prepared to handle several lines—ethical, household, toilet—as sole Agent; stock or commission basis; bankers' reference. 607/825, C. & D. London Office.

**M**ANAGER Manufacturing Chemists' Company, with established country-wide connexions among chemists, etc., in Eire, now forming own sales agency, desires to contact house of repute; view to sole distribution, toilet preparations, chemists' sundries, etc. 608/834, C. & D. London Office.

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**S**ACCHARIN Tablets, any quantity; cash 608/828, C. & D. London Office.

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**W**ANTED immediately, for urgent research pH Meter Electro Metric; new or hand. 608/831, C. & D. London Office.

**W**ANTED, urgently, for pharmaceutical large quantities of 2-oz. Indirect Bottles, with bakelite caps. Leda Chemicals, Alpha Works, 94 Archway Road, N.19. Tel. Archway 4544.

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